

2020



AAEON PRODUCT CATALOG



AIOT SOLUTIONS

Your Smart Computing Partner



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Focus • Agility • Competitiveness

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A Leader and Partner in Embedded Computing Platforms

We have a relentless drive for excellence and passion for unsurpassed service.



Established in 1992, AAEON is one of the leading designers and manufacturers of professional intelligent IoT solutions and advanced industrial computing platforms today. Committed to innovative engineering, AAEON provides integrated solutions including industrial motherboards and systems, industrial displays, rugged tablets, embedded controllers, network appliances and related accessories. We also work with premier OEM/ODMs and system integrators around the world. Offering x86-based platforms from Intel® Atom™ all the way to Intel® Xeon processors, and in desktop, 1U and 2U form factors, AAEON's team of experienced engineers has helped dozens of companies around the globe deploy reliable appliances with faster times to market and lower development costs based on state-of-the-art hardware platforms, unmatched service quality and long-term support.

As an Associate Member of the Intel® Internet of Things Solutions Alliance, AAEON offers customized end-to-end services from initial product conceptualization and board product development to mass manufacturing and after-sales service programs.

At AAEON, we take the environment seriously, and all of our products are compliant with RoHS regulations. We are dedicated to the sustainability of the Earth, and all of our products conform to applicable laws and regulations.

AAEON Core Values

Reliability:

Delivering dependable products in a timely manner

Integrity:

Valuing business integrity and ethics

Innovation:

Turning cutting-edge concepts into reality



System Level Products

AAEON is committed to delivering high-quality intelligent system products, such as Rugged Panel PCs, Expandable Industrial Computers, Full HD Infotainment Displays, Rugged Tablets, Embedded PCs and related accessories, for use in all aspects of sectors including Digital Signage, Transportation, Industrial Automation, Healthcare, Hospitality, Harbor/Marine, Military/Government, Public Safety and Energy.

AAEON has the capability to customize services for a range of embedded computers and system products according to customer requirements and specifications. To help large customers with volume production, AAEON also provides an end-to-end Design Manufacturing Service (DMS) that begins with design and goes through to contract manufacturing. Quality assurance of our system products ensures excellent product performance and is the key to our success and growing global customer base.

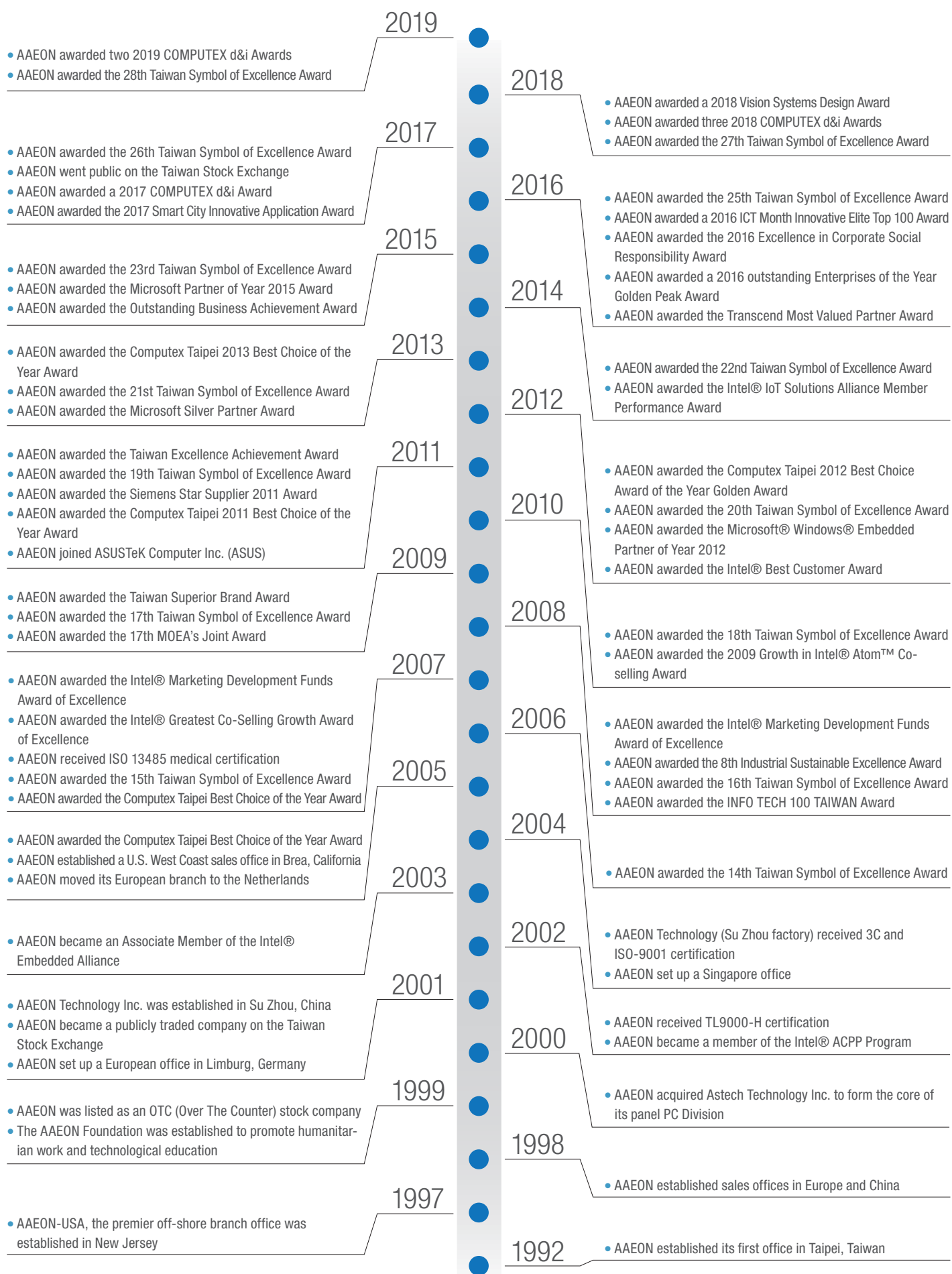
Board Level Products

Embedded boards are the beating heart of every computer system. AAEON offers a diverse range of different embedded boards to consolidate your systems. Our products include Compact Boards, 3.5" Sub-Compact Boards, EPIC boards, PICO-ITX boards, COM Express Modules, PC/104 Modules, PC/104 Peripheral Modules, IoT Node/Gateway Boards, and full-sized & half-sized SBCs.

With the advent of the fourth industrial revolution, more commonly known as Industry 4.0, the optimization of automation processes and productivity is becoming more relevant than ever before. Embedded single boards provide an easily configurable and efficient solution to consolidating industrial platforms and infrastructure in fields such as smart cities, smart building management, smart transportation, energy-efficient grids, POS and digital signage, and the medical industry.

AAEON's boards are designed for superior environmental resilience. The WiTAS (Wide Temperature Assurance Services) line can be used within a temperature range of -40°C~85°C and is specifically built to combat harsh environments, operating at peak efficiency in both bitterly cold and blisteringly hot spaces. Our WiTAS products are also ideal for IoT uses and are designed for minimum maintenance and maximum ruggedness.

Milestones



Operation Strength

A member of the ASUS Group: A strong high-tech conglomerate

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Operation Strength/ OEM/ODM Capability

ASUS Technology and Financing

AAEON Design Flexibility and Domain Know-how



OEM/ODM Capability

The OEM/ODM service has been a key factor in AAEON's phenomenal growth over the past 10 years. AAEON offers design services for full custom requirements as well as modification services for its off-the-shelf products. Whatever you need, AAEON has the experience and expertise to help you create or modify products to perfectly fit your requirements.

Core Competence

Product Innovation

AAEON's integration expertise is integral to product designs that have the most desirable built-in features, saving customers valuable design and customization time. AAEON's OEM/ODM capabilities help us meet customers' exact specifications and requirements. In addition, AAEON has invested aggressively in R&D capabilities and will continue to do so to maintain a competitive advantage for new designs. In cooperation with premier technology vendors, AAEON participates in vendor early access programs to provide the latest technology to its customers.

Market Focus

AAEON has established a worldwide reputation for exceptional domain know-how. This expertise has enabled AAEON to secure a solid position in Machine and Factory Automation, as well as the Chemical Industry. Additionally, AAEON's cutting edge products meet the specific requirements of the Digital Signage, Transportation, Industrial Automation, Medical, Harbor/Marine, Military/Government, Public Safety and Energy sectors.

R&D Strength

AAEON takes great pride in its World Class R&D aptitudes. With more than 20% of AAEON's workforce employed in R&D and 10% of annual sales revenue invested in this field, AAEON is prepared to handle the most demanding designs based on the latest technologies. With our strong background in innovation, AAEON has been granted a raft of design patents around the world.

Design Capability

From our core competence of single board computer design, AAEON has expanded its capabilities to award-winning Panel PC System Design, BIOS Engineering with multi-vendor expertise, Mechanical Design, Peripheral Device Design, Design Verification and in-house EMI/EMC Debugging.

Manufacturing Capability

AAEON has manufacturing facilities located in Taipei, Taiwan and Suzhou, China. To become the leading supplier of Industrial Computers, AAEON has created manufacturing facilities with flexible layouts and expansion capabilities to easily address the demand for increased production capacity. Drawing upon the skills of its professional and experienced personnel to develop an efficient production system, AAEON has the ability to respond rapidly to customer requests for standard or customized IPC products.



Quality Assurance

AAEON's Quality Assurance Closed Loop Feedback System provides solid and consistent feedback through the design, manufacturing and service stages to ensure continuous progress and meet customer expectations. The three stages of the Quality Assurance System are Design Quality Assurance (DQA), Manufacturing Quality Assurance (MQA) and Service Quality Assurance (SQA).

DQA

Design Quality Assurance starts at the conceptual stage of a project and covers the product development stage to ensure the utmost quality throughout the process. AAEON's safety and environmental test labs ensure our products meet the requirements of CE/UL/FCC/CCC standards. All AAEON products go through an extensive and comprehensive test plan for compatibility, function, performance and usability. Therefore, AAEON customers can always expect to receive well-designed, high-quality products.

MQA

Manufacturing Quality Assurance is carried out in accordance with ISO 9001, ISO 13485, ISO 14001 certification standards. All AAEON products are built using production and quality testing equipment in a static-free environment. Additionally, these products go through rigorous tests on the production line and dynamic aging in the burn-in room. AAEON's Total Quality Control (TQC) program includes Incoming Quality Control (IQC), In-Process Quality Control (IPQC) and Final Quality Control (FQC). Periodic training, auditing and facility calibration are strictly implemented to ensure all quality standards are followed to meet customers' requirements. The Quality Control Team constantly communicates with R&D to improve product performance and compatibility.

SQA

Service Quality Assurance includes technical support and a repair service. With SQA, AAEON can serve its customers and also receive their feedback and work with R&D and Manufacturing to strengthen AAEON's response time in resolving customer concerns and improve service levels.

Repair Service

With an efficient eRMA system and RMA service policy, AAEON's RMA Team is able to ensure prompt, high-quality product repair and replacement services with a short turnaround time.

Quality Certification



AAEON has acquired many official certifications to maintain its quality system.

ISO 9001:	QMS Standards, 2015
ISO 13485:	QMS Standards, 2016
ISO 14001:	EMS Standards, 2015
3C:	China Compulsory Certification
CE/FCC:	All AAEON products undergo and meet CE and FCC test standards which prove their design quality and integrity

Technical Support

The backbone of customer support is a team of professional Application Engineers who provide customers with real-time technical support. Their expertise is shared through internal knowledge management and links to the website for online nonstop service and solutions.

Applications

Industrial Automation



BOXER-6616

- Fanless Design
- IP40
- Wide Temperature Support
- Wide Range DC Input
- Mini-Card Expansion



BOXER-6405

- Fanless Design
- IP40
- Wide Temperature Support
- Ultra-slim Design
- Mini-Card Expansion



BOXER-6750

- U-Series CPU: Intel® Core™ i3-6100U/ Celeron® 3955U
- DDR4 2133 MHz SODIMM x 1, Memory Max. up to 16GB
- Supports Industrial-grade Intel® GbE LAN x 2
- Supports BIOS Selectable RS-232/422/485 x 4
- VGA + HDMI Dual Display Output



Panel PC Series

- Multiple Size 7" ~ 17"
- IP65, -20°C~60°C, OVP, LVP, RVP, SVP
- Supports Intel® Processors

Rugged Tablets



RTC-700RK 7" RISC Based Rugged Tablet

- 7" WXGA (1280 x 800) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Rockchip RK3288 1.6 GHz Quad Core Processor
- DDR3L 2GB SDRAM
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Android 6.0



RTC-700B 7" X-86 Based Rugged Tablet

- 7" WXGA (1280 x 720) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Extended Battery Swappable, MIL-STD 810G, IP65 Compliant
- Windows® 10, Android™ 5.1



RTC-1010 10.1" Industrial Rugged Tablet

- 10.1" WXGA (1280 x 800) 300-nit TFT LCD (Default) Rich Wireless Offerings
- Intel® Celeron™ N3350 1.1 GHz Dual Core Up to 2.4 GHz (N4200 Optional)
- eMMC 64GB (mSATA III Up to 512GB Optional)



RTC-1200 11.6" Industrial Rugged Tablet

- 11.6" HD (1920 x 1080) Sunlight Readable Display
- Intel® Core™ i Dual Core up to 3.4GHz Processor/ Intel® Celeron® 3955U Dual Core 2.0GHz Processor
- One DDR3L SO-DIMM Socket, up to 8 GB
- Two Hot-swappable Battery, 14.8V/ 2200mAh/ 33 whr
- MIL-STD-810G, IP65 Compliant, Drop 120cm
- Programmable Function Key: Windows, Volume Up/ Down, P1, P2, P3 with LED Illumination

Network Security



FWS-8600

- 2U Rackmount Network Appliance
- Dual Intel® Xeon® Processor Skylake-SP processor
- Intel® Communications Chipset C621
- DDR4 2133/2400/2666 MHz DIMM (8 DIMM Per CPU) RDIMM x 16, Up to 512 GB
- IPMI Support



FWS-7830

- 1U Rackmount Network Appliance
- Dual Intel® 8th Generation Core/Xeon processor
- Intel® Communications Chipset C246
- DDR4 2133/2400/2666 MHz DIMM RDIMM x 4, Up to 64 GB
- IPMI Support



FWS-2360

- Desktop Network Appliance
- Intel® Atom® C3000 Series Processor Supports Dual and Quad Core
- DDR4 SODIMM/ ECC DIMM (Dual Core 1 Slot Quad Core 2 Slot)
- 4 Copper(88E1543) + 2 Copper(I211), optional 4 Copper(88E1543) + 2 Fiber(I210)

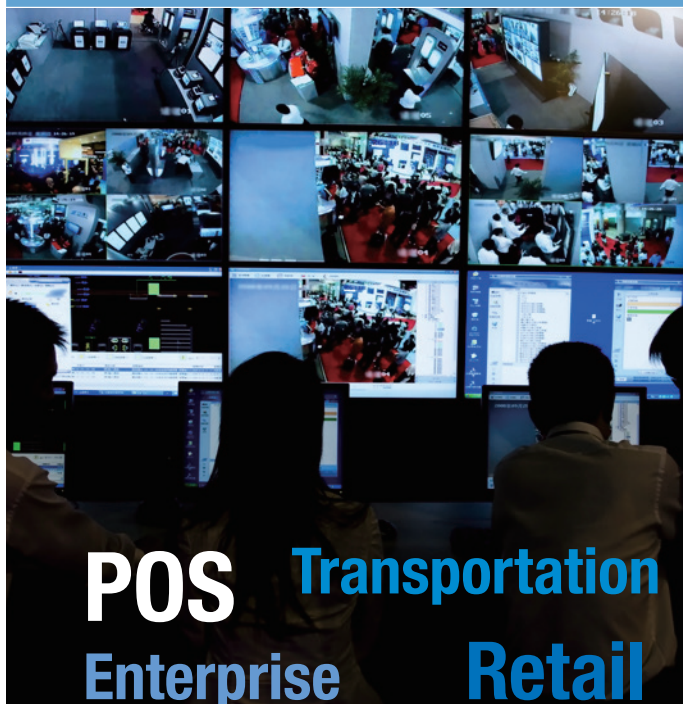


FWS-2272

(Compact & Fanless End-point Security Kit)

- Intel® N3350 Processor SoC
- On-board LPDDR4L 1GB Memory
- 10/100/1000Base-TX x 4
- On-board 8GB eMMC, SATA II Port x 1
- Mini-card Slot (with SIM Socket) x 1
- RJ-45 Console x 1, USB3.0 x 2

Video Surveillance



VPC-5600S

- In-Vehicle Network Video Recorder Platform
- Fanless System
- 260-pin Dual-Channel DDR4 2133 MHz SODIMM x 2 up to 16 GB
- Intel® Integrated Graphics Engine Supports Dual Display by HDMI x 1, DP x 1
- Realtek® Ethernet Connection x 6 w/ 4-port PoE



VPC-3350S

- Mobile Network Video Recorder Platform
- Fanless System
- 204-pin Single Channel DDR3L 1866 MHz SODIMM up to 8 GB
- Intel® Integrated Graphics Engine Supports Two Display by HDMI x 1, DP x 1
- Intel® Ethernet Connection x 5 Ports (including 4 x PoE Ports)
- Full Mini-PCIe Socket x 2 (USB + PCIe); (Support up to Mini-PCIe Socket x 4, Optional)
- Built-in CANBus, GPS & G-Sensor (In-vehicle config. by project base)
- E-Mark Certified (In-vehicle config. by project base)



VPC-3300S

- In-Vehicle Networking Video Recorder Platform
- Fanless System
- 204-pin Single Channel DDR3L 1600 MHz SDIMM up to 8GB
- Mini-PCIe Socket x 3 (Full card size) (1 x w/ USB)

Applications

AI@Edge



BOXER-8120AI

- Nvidia Jetson TX2
- HMP Dual Denver 2 + Quad ARM A57
- Support Linux Ubuntu 16.04
- 8GB LPDDR4, 32GB eMMC 5.1 onboard
- RS-232 x 2, USB 3.2 Gen 1 x 2, OTG x1
- HDMI 2.0 x 1, LAN x 4 (Intel i211*3, Native*1)
- Micro-SD x 1, Remote On/Off
- Power input: 9~24Vdc



BOXER-8110AI

- NVIDIA Jetson TX2
- Support Linux Ubuntu 16.04
- 8GB LPDDR4, 32GB eMMC 5.1
- HMP Dual Denver 2 + Quad ARM A57
- HDMI 2.0 x 1, USB 3.2 Gen 1 x 2
- RS-232 x 1, CANBUS x 1 Channel
- OTG x 1
- LAN x 1
- MicroSD x 1



BOXER-6841M

- Support 6th / 7th Core-i desktop processor, Max 35W
- Intel® H110 PCH
- Easy Installation design for expand slot
- Support PCIe[x16] x1, PCIe[x1] x1
- Support up to max 180W Graphic Card
- System Fan with PWM function

Machine Vision



BOXER-6839

- Intel® 6th Core-i Desktop processor
- Mini-Card Slot x 2 (USB & PCIe Signal)
- PCIe [x1] + PCIe [x4]
- LAN x 3
- 34bit DIO
- Dual 2.5" Drive Bay Support



BOXER-6639M

- Intel® 6th Core-i Desktop processor
- Mini-Card Slot x 2 (USB & PCIe Signal)
- LAN x 7 or LANx3 + PoE x4
- 34bit DIO
- Dual 2.5" Drive Bay Support



BOXER-6404M

- Intel® Celeron® J1900/N2807 Processor SoC
- Compact Design
- Quad Gigabit Ethernet Connectivity
- Dual HDMI Output support Dual independent Display
- Wide Operating Temperature -30°C ~ 65°C

Smart Factory



OMNI-2000/3000

- Modular Design
- Supports P-CAP T/S / Full Flat Resistive T/S
- Supports Intel® J1900/N2807/ i5-6300/ Celeron® Processor
- IP65 Front Panel



OMNI-Display

- Modular Design
- Supports P-CAP T/S / Full Flat Resistive T/S
- LCD Auto-detection
- IP65 Front Panel

Infotainment



ACP-1074/ACP-1076

- 7" WSVGA (1024 x 600) Color TFT LCD Display
- Intel® Processor
- Wide Flatscreen with P-CAP Multi-Touch (2-point)
- 7H Anti-scratch Surface
- Aluminum Design
- IP65 Compliant
- Fanless Operation
- VESA 75/Panel Mount/ Stand Support



ACP-1104/ACP-1106

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- Intel® Processor
- Aluminum Design
- P-CAP Multi-touch (2-point)
- Fanless Operation
- VESA 75/ Panel Mount/ Stand Support
- IP65 Compliant Front Bezel

Applications

IoT Gateway



UP-GWS01

- Intel® Cherry Trail x5-Z8350 SoC
- On board DDR3L 4GB memory
- 32GB eMMC storage
- 1x Giga LAN, 4x USB 2.0, 1xUSB 3.0,1x HDMI
- Optimized Fan-less Cooling Design
- Smallest Gateway system of Intel solution



UPS-GWS01

- Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
- Onboard LPDDR4 Memory, eMMC Storage
- Gigabit LAN x 2
- HDMI x 1, DP x 1
- USB 3.0 x 3, USB 3.0 OTG x 1



UPC-GWS01

- Intel® Cherry Trail x5-Z8350 SoC
- Onboard DDR3L Memory, eMMC Storage
- Onboard WiFi, Bluetooth
- HDMI x 1
- USB 3.0 x 1
- RS-232/422/485 x 1
- Gigabit LAN x 1



AIOT-IGWS01

- Intel® Cherry Trail x5-Z8350 SoC
- 2G DDR3L Memory, 32G eMMC Storage
- Gigabit LAN x 1, HDMI x 1
- USB 2.0 x 4, USB 3.0OTG x 1, COM x 2 (RS-232/422/485 x2)
- Optional Wi-Fi, Bluetooth, and 3G/4G for Connectivity



AIOT-ILRA01

- Intel® Cherry Trail x5-Z8350 SoC
- Up to 4G DDR3L Memory, 64G eMMC Storage
- Gigabit LAN x 1, HDMI x 1
- USB 2.0 x 4, USB 3.0 OTG x 1
- LoRa® Function Supported
- Supports Frequency Band 868 MHz



AIOT-IP6801

- Intel N3350/E3940 Processor
- Up to 4G LPDDR4 memory, 32G eMMC storage
- LAN/HDMI/USB 3.0/RS-232
- Wi-Fi, Bluetooth
- Optional: LoRa function, 3G, 4G LTE

Wide Temperature Assurance Service (WiTAS)

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Wide Temperature Assurance Service (WiTAS)

Service for Wide Temperature Embedded Computing

Applications of embedded computing systems continue to improve the quality and convenience of our lives. As the world population increases, there are greater demands on resources and the need for automation and computing capability in remote regions will arise. To address the requirement for operating in extreme environments, computer platforms must follow design methodologies for wide temperature range operation. In addition, testing and product qualification must follow more stringent criteria to assure continuous operation. As the core of any embedded system, the CPU board plays perhaps the most critical role and therefore, requires careful design and validation for wide temperature production.

AAEON has designed and manufactured quality embedded products for over two decades. The accumulated experience in all aspects of the embedded electronics market gives AAEON a strong position in the development of wide temperature CPU boards and systems.

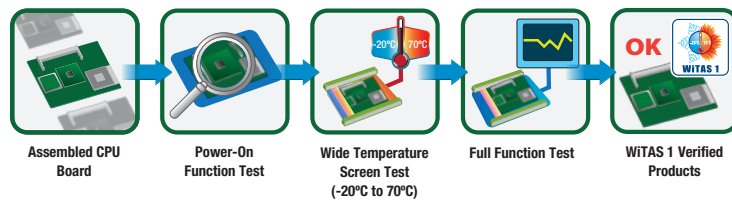
AAEON's WiTAS (Wide Temperature Assurance Service) program produces boards in two temperature range categories:

-20°C to 70°C (-4°F ~ 158°F) = WiTAS 1

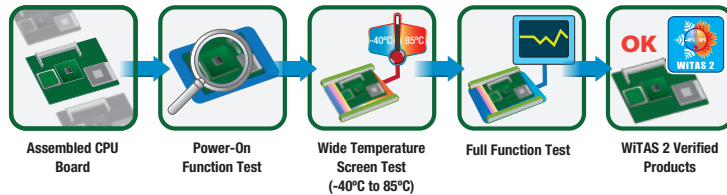
-40°C to 85°C (-40°F ~ 185°F) = WiTAS 2

Processes for WiTAS Production

WiTAS 1 Production



WiTAS 2 Production



Boards that pass the thermal tests of -20°C to 70°C (-4°F ~ 158°F) are given a WiTAS 1 designation and boards that endure the thermal of -40°C to 85°C (-40°F ~ 185°F) are assigned a WiTAS 2 designation, as AAEON's special service assurance of wide temperature durability and reliability. This, in conjunction with the use of durable components throughout the duration of the testing, allows AAEON to enhance the longevity of its boards and systems.

Application

Applications for WiTAS CPU boards can be found in most industries and markets:

- Transportation: Train, Ship, Airplane and Traffic Surveillance System
- Factory Automation: Power Station, Steel Manufacturer
- Military: Field Electronic Devices, Controller
- Energy: Windmill Controller, Solar Energy Controller
- Environmental: Climate, Water, Air Quality
- Anti-dust, Fanless Application: Medical, Chemical and Pharmaceutical Factory



IoT Solutions

IoT Introduction

AAEON IIoT is committed to the development and application of Industry 4.0 solutions in an IoT context, bringing customers a sustainable, connected and personal experience. Our services include smart city applications, intelligent fleet management and transportation solutions, smart agriculture network systems, and automation optimization platforms. We integrate versatility and flexibility in our solutions, customizing each and every one of our cases, and our systems are designed to integrate seamlessly into existing frameworks, lowering costs and enhancing efficiency. For end customers, the convenience of our designs facilitate easy operation and maintenance, eliminating bottlenecks and achieving maximum performance. As a committed service provider for smart city applications, our first priority is the development of safe, sustainable and reliable solutions. Our portfolio includes services in building management, logistics, fleet management, and agriculture, and we aim to provide for and consolidate a safer, globally connected and sustainable world.



Industry 4.0:

In a broader context, smart automation will facilitate the manufacturing process in becoming more cost effective, enhancing output and product quality and quantity. By collecting, collating and analyzing vast swathes of data, factories will be able to adapt to, and even predict future market trends, anticipating the needs of the customer.

Smart Logistics:

AAEON has optimized an asset tracking and maintenance system to rise to the challenges posed by the ever-changing landscape of the logistics industry by developing the CANBUS, a sensor which monitors tire wear and pressure, braking systems and engine output, and provides a real-time GPS tracking system which will be able to pinpoint the exact location of the car at any given time or location.



Building Management:

AAEON provides a centralized management system for smart thermostats, ventilation, humidity and lighting control, which will be able to detect the number of people in each room of a building, and adjust environment settings accordingly to accommodate the current occupants, offering maximum energy efficiency management.

Smart City:

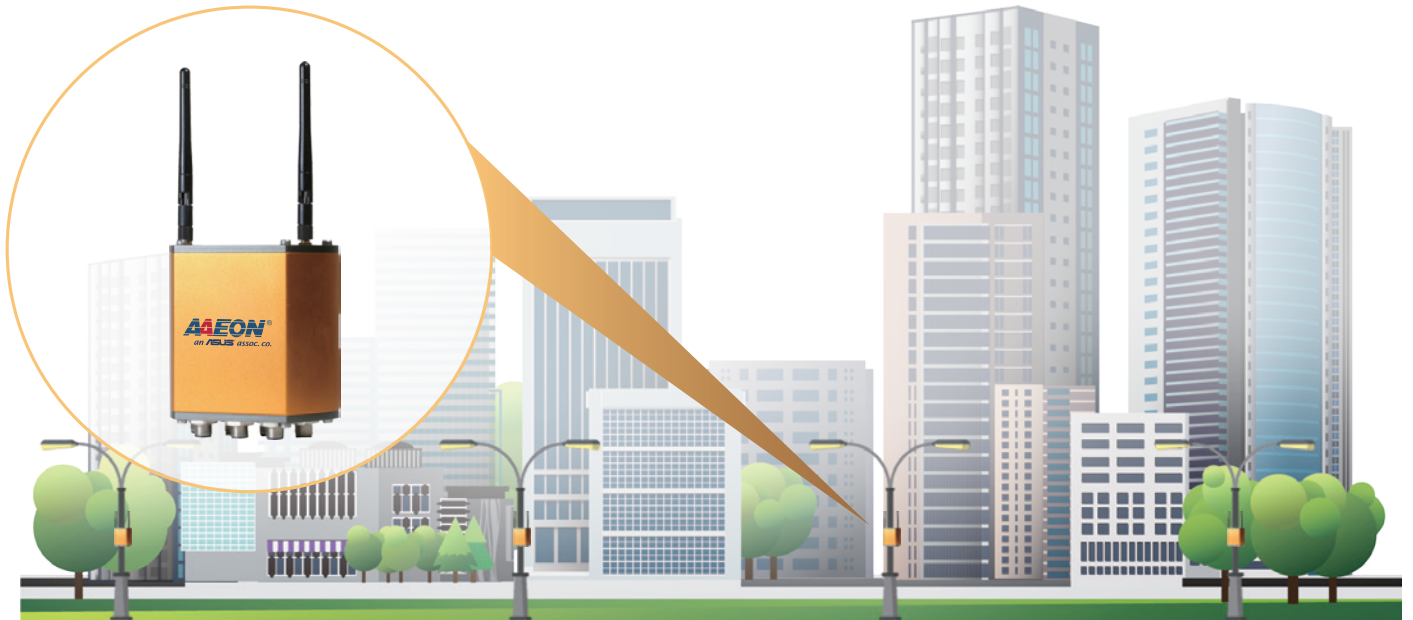
AAEON's Smart City Vision is to connect and improve the quality of communities through a tech-based, sustainable network aimed at eliminating factors that cause physical harm to the human body and immune system. Smart-city information and technology will enhance citizens' quality of life, as well as the infrastructure and socio-economic framework of the city.

IoT Solutions

AirBox

AAEON's AirBoxes are an integral part of a smart-city embedded air-sensory network, collecting and relaying real-time environmental data to city agencies and the public. In the short term, the AirBox will enable long-distance data transmission and low-energy consumption by optimizing and enhancing the transition from episodic to continual data collection and assimilation, while in the long term, it will facilitate the development of a globally connected and sustainable network.

The second generation of Airboxes is designed to be fully customizable and easily integrated with existing frameworks and architecture, with minimum configuration and/or maintenance required.



Atlas, Connecting Smart Cities across the Globe

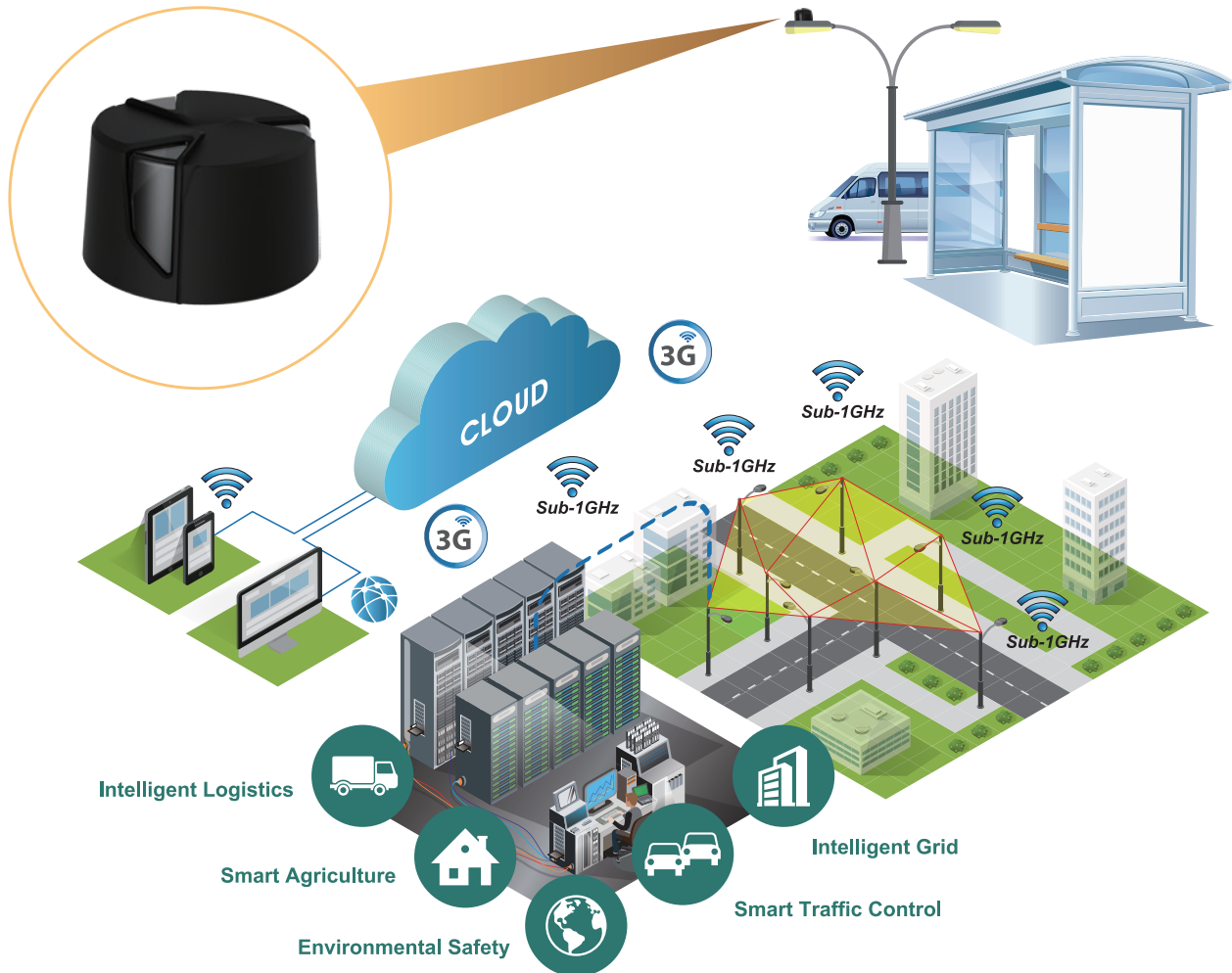
AAEON Atlas, powered by Intel® Movidius™ Myriad™ X vision processing unit (VPU). The Intel® Movidius™ Myriad™ X provides a low-power, high-performance solution for on-device AI inference. Atlas is compatible with the Intel® Distribution of OpenVINO™ toolkit, which includes built-in features such as model optimization, hardware acceleration and more designed to maximize the capabilities of the Intel® Movidius™ Myriad™ X VPU. Atlas is a powerful edge node that consolidates data streams from smart lighting, environmental monitoring, and video analytics. This AI Enabled Smart Device integrated with Camera, Air Sensing and Management System which works at the edge to allow city administrators to create a connected data hub.

Atlas can be deployed in a wide range of edge computing applications. As an edge gateway, Atlas can connect with up to 1000 smart street lighting controller or other IoT devices through proprietary wireless Sub-GHz, providing building blocks for Smart City solution deployment. With license plate recognition AI inference, Atlas can power applications such as Smart Street Parking or detecting traffic violations or accidents. With traffic and congestion monitoring, Atlas can optimize traffic signals in real time to help improve traffic flow. Atlas can also anonymously detect pedestrians in crowd control and flow monitoring applications.



Smart Street Light

AAEON's smart street light is designed to be one of the core features of IoT-based urban infrastructure, which utilizes smart technology to conserve and optimize energy efficiency, while eliminating emissions and the consumption of harmful gases. Each street light draws its energy source from a solar panel embedded at the top of the lamppost. The lampposts are integrated with the city's public WiFi network and are equipped with sensors that detect and collect detailed information on aerosols and then send these statistics back to a centralized cloud. All historical data is open sourced and can be accessed and downloaded by the general public.



Wireless Communication



Low data cost, Low power consumption, Digital Sensory Network, Low signal interface



Centralized Management



Scheduled dimming, Early problem detection, Low maintenance, Improved efficiency



Energy Saving Report



Reality vs Expectations, Justified investment

Rugged Tablet Computer

Introduction

AAEON's new line of Rugged Tablet Computers (RTC) are MIL-STD-810G compliant and meet IP65 ratings. The RTC Series is built from the ground up to withstand water, dust, vibrations and shocks, as well as the extreme temperatures found in a variety of harsh conditions. The RTC product line will go wherever the job takes you. Encased in a tough magnesium alloy, the RTC Series offers secure and reliable mobile computing, whether it is vehicle mounted or hand carried into the field.

The rugged mobile computing market continues to grow as we find new ways to improve performance and productivity by enabling connectivity in the workforce. The RTC series offers up-to-the-minute information and in-field data acquisition, which makes mobile computing not just a valuable asset, but a critical requirement. Powered by low-power processors, such as Intel®, Rockchip and TI™, the RTC line delivers high performance with low power consumption. AAEON rugged tablet batteries can meet the demands of a full day's work in the field. Docking station options and vehicle chargers will keep the system up and running for multiple shift operations. These ergonomic and conveniently sized tablets are lightweight and will go with you anywhere to tackle the job on hand.

The PCAP touch screen and Advanced Optibond Technology (AOT™) allows easy and accurate data input. The programmable function keys are all standard features that make AAEON's RTC product line your best choice for mobile computing.

RTC-1010

10.1" Rugged Tablet Computer

- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1 GHz Dual Core Up to 2.4 GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- NFC Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT / Android 9



RTC-1200

11.6" Rugged Tablet Computer

- 11.6" FHD (1920 x 1080) 300-nit / 1000-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U up to 3.9 GHz
- One DDR3L SODIMM Socket, Up to 8GB
- One M.2 Slot for SSD, 64GB (Default)
- Projective Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 1, USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- NFC (HF RFID) Reader (Optional)
- Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, F1, F2, F3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT (Windows® 7 for Skylake, Optional)



RTC-700RK

7" Rugged Tablet Computer

- 7" WXGA (1280 x 800) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Rockchip RK3288 1.6 GHz Quad Core Processor
- DDR3L 2GB SDRAM
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Extended Battery Swappable, MIL-STD 810G, IP65 Compliant
- GPS/GLONASS Simultaneously
- WiFi b/g/n, Bluetooth V4.0
- Supports NFC/RFID, Ethernet + COM Port (Optional)
- 1D/2D Barcode Scanner with Trigger Button (Optional)
- MSR (Optional)/SCR (Optional)
- G-Sensor, Light Sensor, E-Compass
- Android 6.0



RTC-700B

7" Rugged Tablet Computer

- 7" WXGA (1280 x 800) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor
- DDR3L - RS 1600 2GB/4GB (Optional)
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Extended Battery Swappable, MIL-STD 810G, IP65 Compliant
- GPS/GLONASS Simultaneously
- WiFi b/g/n, BT4.0
- Supports NFC/RFID (Optional), Ethernet + COM Port (Optional)
- 1D/2D Barcode Scanner with Trigger Button
- MSR (Optional)/ SCR (Optional)
- G-Sensor, Light Sensor, E-Compass
- Windows® 10



Rugged Tablet Computer

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Rugged Tablet Computer

Fully-Rugged Design

Water Proof



- IEC 60529
- IP-x5 standard

Drop Test



- MIL-STD 810G 516.6 Procedure IV

Dust Proof



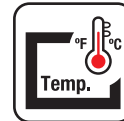
- IEC 60529
- IP-6x standard

Vibration Test



- MIL-STD 810G 514.6 Procedure I Cat. 24, Fig. 514.6E-1 & 514.6E-2
- ASTM 4169-99 Truck Assurance Level II, Schedule E

Temperature Test



- MIL-STD 810G 501.5 Procedure I & II, Method 502.5 Procedure I & II, Method 503.5 Procedure I, Method 507.5 Procedure II

Built-in Versatile Sensors

GPS



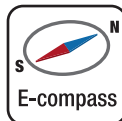
- BGA GPS single chip solution

G Sensor



- Gravity sensor

E-compass



- Electronic compass

Gyro Sensor



- Electronic gyroscopes

Outdoor Display Enhancement

AOT™ (Advanced Optibond Technology)



- The best reflection reduction of any commercially available technology
- Reinforces the LCD display, making it much more rugged



Without AOT™ With AOT™

Sunlight Readable LCD Ambient Light



- Readable content under sunlight
- Higher brightness solution
- AOT optical bonding



- Power saving in dark environments
- Detects light and brightness

Electric Input Device in Cloud...

RFID/NFC

IPC Cloud Data Center



Introduction

The OMNI Panel PC is built with an innovative modular design to make it quick and easy for suppliers and customers to find and build the configuration they need for the job. From panel and box to I/O modules, the OMNI Panel PC offers a range of configurations and combinations you can build.

The OMNI modular panel PC features three main components; the Panel Kit, CPU BOX Kit, and I/O Modules. Each Panel Kit comes with a standard slot attachment, which allows any OMNI CPU BOX kit to be mounted quickly and easily. It only takes three wires and three screws to attach the CPU BOX kit to the Panel Kit. The optional I/O Modules simply plug into the side of the CPU BOX Kit and can be secured with two screws. Even better, the OMNI system uses a plug-and-play style firmware, allowing you to quickly change components without needing to flash or update the BIOS settings.

With this modular design system, customers can easily build or upgrade their own Panel PC, and suppliers can enjoy more flexibility and cost savings while maintaining stock. All a customer needs to do is pick their preferred screen size, the box kit with the processor and specifications desired, and the optional I/O module they need.

Build Your Own or Select a Pre-built System

Select Module Kit to Build Your Configuration



Panel Kit



Box Kit



I/O Module

Pre-built System



Modular
Touch
Panel
Solutions

OMNI Modular Builder

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OMNI Modular Builder

Build Your Own in Three Steps!

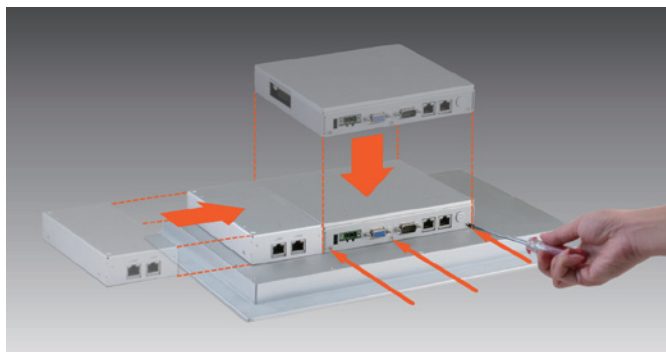
Step 1: Select a Panel Kit, with sizes from 10.4" up to 21.5"



Step 2: Select a CPU Box Kit or a Display Box Kit



Step 3: Select an I/O Module (optional)



Or Select a pre-built OMNI System

OMNI-SKU: These systems feature the 6th Generation Intel Core i7/i5/i3 and Celeron 3995 processors (formerly Skylake), combined with up to 16GB of memory.

OMNI-BT: These systems are powered by the Celeron J1900 and Celeron N2807 processors (formerly Bay Trail), with up to 8GB of memory available (J1900 CPU).

OMNI-M: These systems are fitted with the Display Box Kit, allowing you to connect the OMNI panel to any PC system via VGA or HDMI.



AAEON's Embedded OS Solution

AAEON provides Embedded OS Solutions to customers who are in need of OS customization. AAEON's Embedded OS Solutions are designed to shorten times to market and save customers' time and R&D resources.

Windows® Embedded Products

 Windows 10 IoT

Windows® 10 IoT Enterprise 2016/2019

 Windows Embedded 8

Windows Embedded 8.1
Industry

Windows Embedded 8
Standard

Windows Embedded 8.1
Pro

Windows Embedded 8.1
Handheld

 Windows Embedded 7

Windows Embedded
Enterprise 7

Windows Embedded
POSReady 7

Windows Embedded
Standard 7

 Windows Embedded Compact 7

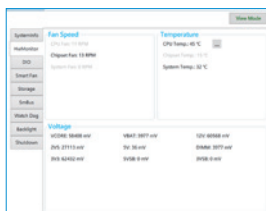
Windows Embedded
Compact 7

AAEON Hi-Supervisor

Hi-Supervisor is a remote hardware monitor on Windows, and base on MQTT protocol. This allows users to catch devices' information and set hardware configuration like GPIO, FAN, Watch Dog, SMBus, reboot and shutdown.... Hi-Supervisor can be installed on all AAEON x86 platforms. Users can monitor the situation of devices or set warning conditions, acknowledge users by email. Hi-Supervisor is a UI terminal that cooperate with Hi-Agent which collects device's information then sends the payload and easy to control.

Hi-Supervisor Advantages

- ▶ **Hi-Safe full functions remotely**
- ▶ **Customized support**
- ▶ **Integrate Azure Iot Central and PNP**



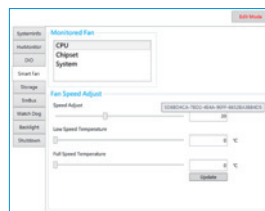
Hardware Monitor:

Retrieves fan, temperature and voltage data

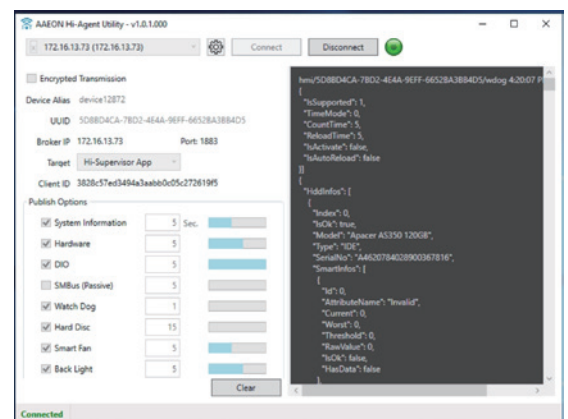
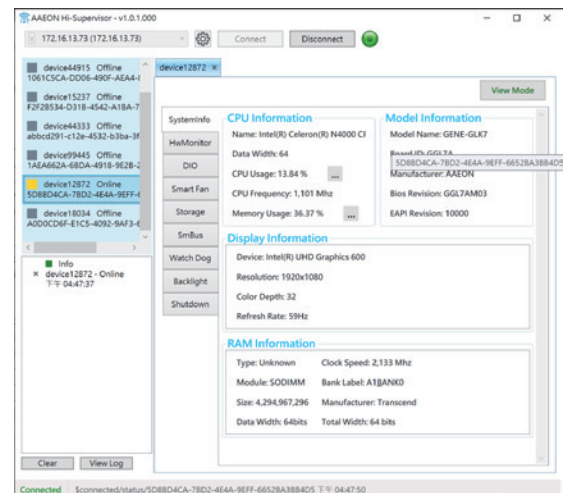


Hard Disc:

obtain hard disc S.M.A.R.T information



Remote Control Fan



AAEON Hi-Safe

Hi-Safe is a free and powerful program providing SDKs for UIs running Microsoft® Windows® Operating systems. It provides an easy way to develop the end user's own UI software to monitor vital System information such as those for the processor, RAM and VGA. It monitors received data from the Super I/O, fan, temperature and voltage, offers configuration options for Digital I/O pin direction and data patterns, provides watchdog timer and fan speed settings, SMBus base address detection and device ID settings. It also offers two modes for backlight display control if one uses the LVDS interface. Based on the user interface SDK, no coding is needed and customers can create their own customized user interface by using the function codes provided by AAEON.



Hi-Safe Advantages

- ▶ **Faster time to market**
- ▶ **Easy to use**



System Information:

Displays CPU, VGA and RAM information



Smart Fan:

Retrieves fan and temperature data; sets the fan speed into the smart fan mode



Hardware Monitor:

Retrieves super I/O, fan, temperature and voltage data



SM Bus:

Read and write SMBus device and detects SMBus base address automatically



DIO:

Obtain DIO information: set the pin direction and pin data



Backlight Controller:

Controls the backlight display; two modes



Watchdog:

Set the system reboot timer

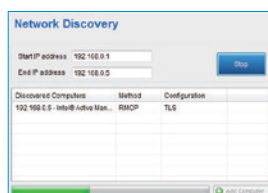
AAEON Hi-Manager

Hi-Manager is a tool based on the Intel® Active Management Technology 12.0 (iAMT 12.0) and has backward compatibility with earlier versions of iAMT. This allows users to locate all iAMT devices within the intranet, power On/Off target devices remotely, set power On/Off scheduling, arrange device groupings for better management, offer event logs and timer settings to wake up devices at specified times, recover systems that have crashed from virtual CD-ROM, remote KVM management and access to target device hardware information for asset management. Hi-Manager can be installed on all AAEON platforms and can remotely manage AAEON client devices that use Intel® M67/ Q77/ QM77/ HM76/ B75A/Q87/QM87/QM170/Q370/C246 chipsets and run Microsoft® Windows® XP, Windows® 7, and Windows® 10 Operating Systems.



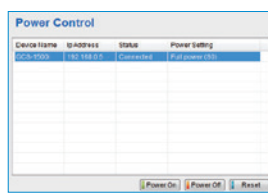
Hi-Manager Advantages

- ▶ Easy to use and build custom applications
- ▶ Supports AAEON products with iAMT
- ▶ In-depth technical support



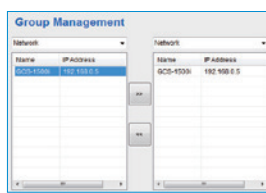
Network Discovery:

AMT device discovery



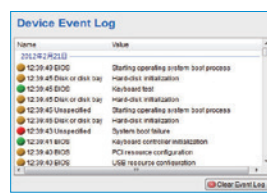
Power Control:

Powers on/off the target device



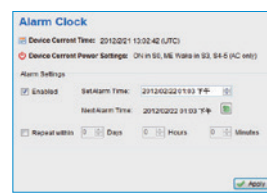
Group Management:

Arrange devices in this function



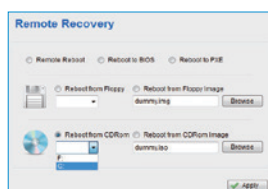
Event Log:

Logs boot records of the selected device



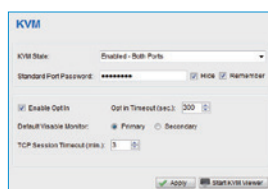
Alarm Clock:

Sets timer to wake up a sleeping device



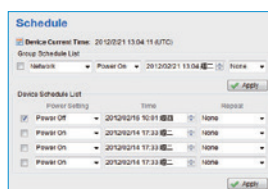
Remote Recovery:

Mounts boot image or physical CD-Rom to target device



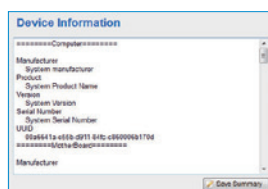
KVM:

Controls remotely from the target device



Schedule:

Schedules the power on/off target devices



Device Information:

Shows target device assets

Intel® Active Management Technology Features

Intel® Chipset	M67/ Q77/ QM77/ HM76/ B75A/ Q87/ QM87/QM170/Q370/C246
Intel® AMT Version	7.0/8.0/9.0/10.0/11.0/12.0
HW Inventory	✓
SW Inventory	✓
Power State Management	✓
System Defense	✓
Remote Configuration	✓
Remote Boot Option	✓
KVM Redirection	✓
KVM Remote Control	✓
ME Wake on LAN	✓
Proactive Security Block, HW-Based and Remote Management Recovery	✓
Host-Based Provisioning	✓
Enhanced System Defense Filters	✓

Design Manufacturing Service

Design Manufacturing Service (DMS) offers exceptional end-to-end services from product conceptualization, product development to manufacturing and service programs. All services are linked together through a comprehensive process and closely monitored by dedicated professionals to guarantee the highest level in product quality, reliability and durability.

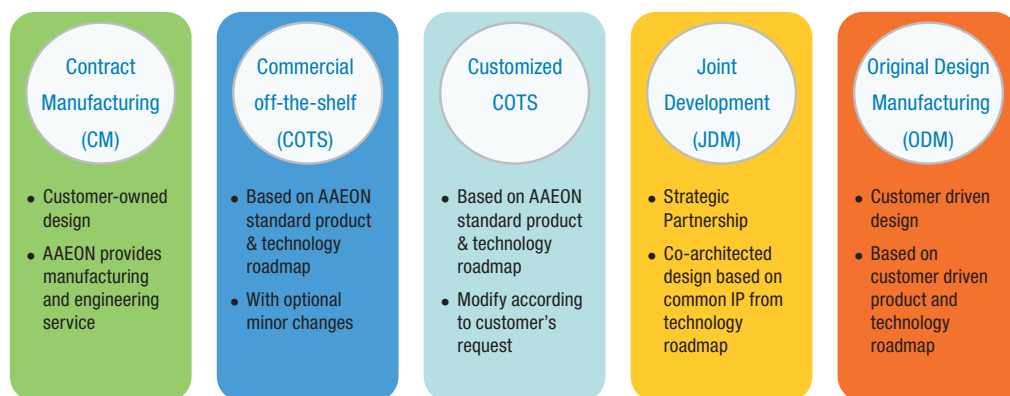
Collaboration Models



Customers can consign to AAEON the manufacturing of their existing products, customize existing AAEON COTS products, or joint develop new products with the expertise of a dedicated project team that oversees the project from product conceptualization to on-time delivery of the goods. AAEON DMS handles Large-volume as well as Low-Volume-High-Mix projects, satisfying the need of our customers for every kind of computing platform requirements.

Areas of Expertise

- Retail
- Transportation
- Energy
- Automation
- Medical and Healthcare
- Networking



Quality Manufacturing

Collaborative Development

System Product Lines



AI@Edge Solutions

AAEON AI@Edge Solutions feature embedded platforms purpose-built for powering Artificial Intelligence and Edge Computing applications. Utilizing the latest edge SoCs and AI accelerators, these systems are available in a range of I/O configurations to provide maximum flexibility and compatibility for your project.



AIOT Gateway

AAEON's AIOT gateway series focus on communication on multiple connectivity protocols, data mining/ collection, and edge computing in IoT environment. All series are equipped with Intel dual/quad core CPU, onboard memory, and eMMC as storage in a lightweight, palm-sized boxes. Due to variety of I/O interfaces such as HDMI, USB, COM port, Ideal applications from data collection to automation, smart retail, and smart city.



IP68 Gateway

A new generation of tough IoT gateways is allowing applications to move into the field and stay connected – no matter what the conditions. AAEON's AIOT-IP6801 provides complete protection against dirt and dust, it can be safely plunged into deep water, and it has an operating temperature range of up to -20 °C ~ 70 °C. Even if you work in the dirt, you can still keep your head in the clouds.



Machine Vision Box PC

Featuring added connectivity for camera/lighting controls as well as robotic arms, AAEON's Machine Vision Box PCs are high-performance platforms that accelerate inspections and improve production efficiency.



Fanless Embedded BOX PC

The BOXER Series is a full line of differently sized embedded controllers for use in the fields of transportation, entertainment, environmental and industrial facility monitoring, building automation and other relevant IPC areas.



Transportation Box PC

AAEON Transportation Box PCs serve as surveillance centers for retrieving video content from PoE cameras and transmitting GPS location data to control centers, as well as a source of Wi-Fi/4G connectivity and infotainment.



Network Video Recorder & Mobile NVR

In addition to monitoring, recording and storing recorded videos, AAEON's Network Video Recorders are also equipped with media playback and vehicle power support and can also serve as WiFi hotspots.



Rugged Tablet Computer (RTC Series)

AAEON's line of Rugged Tablet Computers (RTC) is MIL-STD-810G compliant and meets IP65 ratings. The RTC Series is built from the ground up to withstand water, dust, vibrations and shocks, as well as the extreme temperatures found in a variety of harsh conditions. The RTC product line will go wherever the job takes you. Encased in a tough magnesium alloy, the RTC Series offers secure and reliable mobile computing, whether it is vehicle mounted or hand carried into the field.



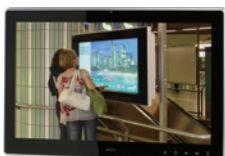
Ultra-slim Multi-Touch Panel PC (ACP-1000 Series)

The ACP-1000 Series is AAEON's first offering of ultra-slim fanless P-CAP multi-touch panels. The panels' most prominent feature, their ultra-slim design, offers superior cooling and makes them suitable for space-restricted applications. The panels can also be used with Panel and VESA mounts for installation on both vertical and horizontal surfaces.



Modular Touch Panel PC

The OMNI Series is a group of modularized industrial touch panel PCs that are highly dynamic in design and can be efficiently deployed in the manufacturing sector. AAEON offers a wide selection of premade components including 10.4"~21.5" LCD kits, a CPU BOX kit and several I/O modules to configure unique panel PCs to fulfill customer needs. Lead time is therefore greatly shortened, enhancing efficiency and effectively lowering costs as customization costs are eliminated.



Modular Touch Display

AAEON industrial displays range in size from 10.1" ~ 21.5" and have either capacitive or resistive touch screens, industrial-grade LED LCD screens, high IP-rated bezels and wide temperature specifications.



Network Appliance

AAEON provides high-performance Network Appliance solutions that are suitable for a range of applications including Unified Threat Management (UTM), Virtual Private Network (VPN), Intrusion Detection System (IDS), Intrusion Prevention System (IPS), Content Management (CM), and Firewall Systems.



Turn-key Chassis

AAEON Turn-key Chassis systems provide users with a platform that's ready to go out of the box. Including the compact Nano system and the 1U form factor ACS series, AAEON Turn-key systems provide support for a range of Intel® processors from the Intel® Atom™ to the 6th Gen Intel® Core™ (formerly Skylake). AAEON Turn-key chassis come with a range of I/O and expansion features to easily integrate into your workplace.

AI@Edge Solutions

AI

01

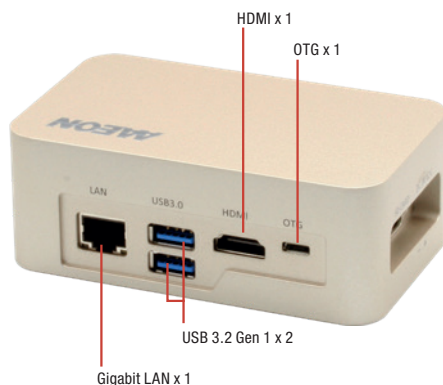


BOXER-8110AI

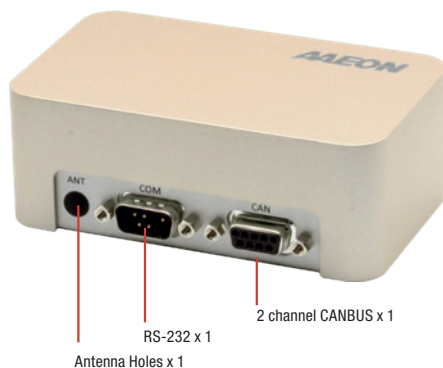
AI@Edge Fanless Embedded Box PC with NVIDIA Jetson TX2



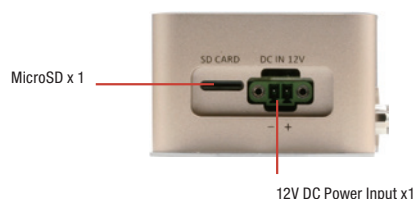
Front View



Rear View



Side View



Features

- NVIDIA Jetson TX2
- Support AAEON ACLinux 4.9, Compliance with Ubuntu 18.04
- 8GB LPDDR4, 32GB eMMC 5.1
- HMP Dual Denver 2 + Quad ARM A57
- HDMI 2.0 x 1, USB 3.2 Gen 1 x 2
- RS-232 x 1, CANBUS x 2 Channel
- OTG x 1
- LAN x 1
- MicroSD x 1

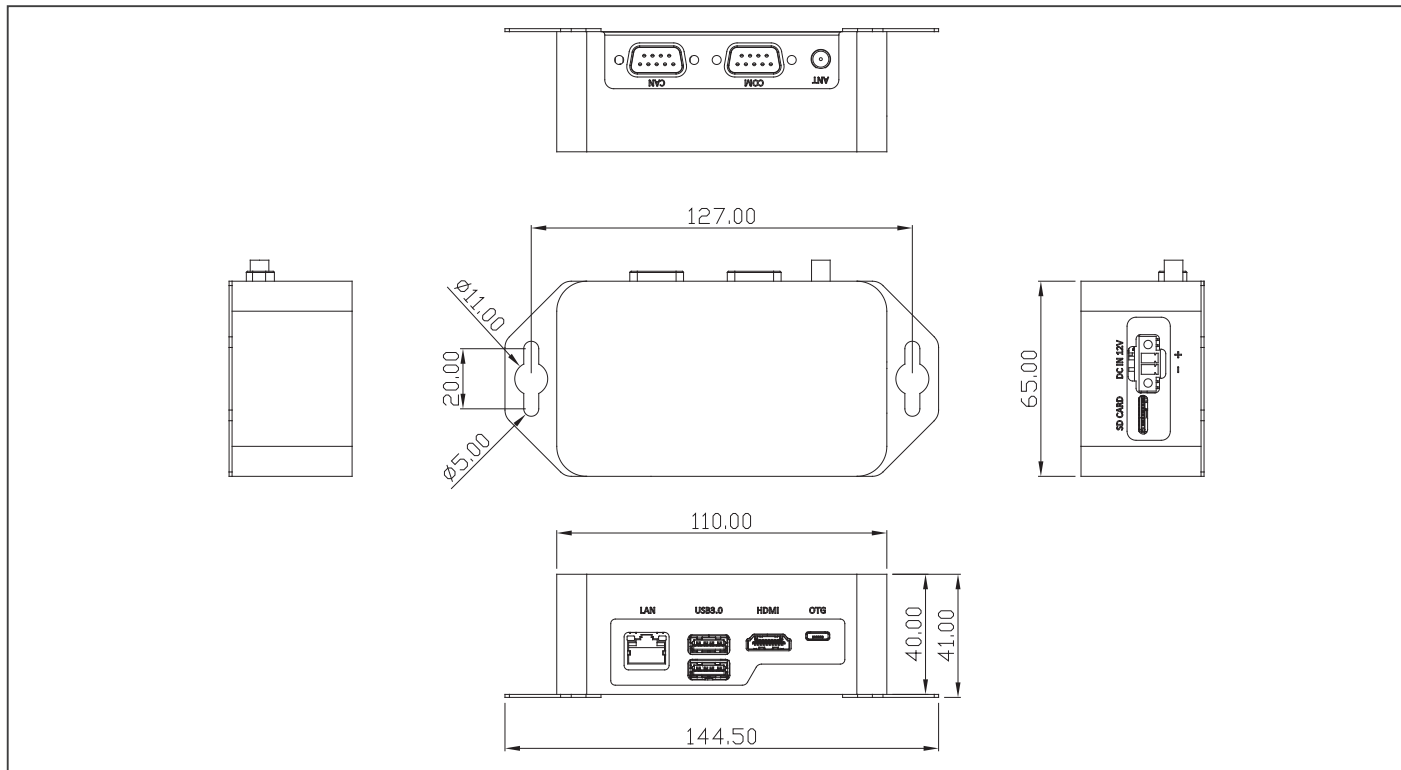


Specifications

System	
CPU	HMP Dual Denver 2 + Quad ARM A57
Chipset	—
System Memory	8GB LPDDR4
AI Solution	Nvidia Jetson TX2
Display Interface	HDMI 2.0
Storage Device	32GB eMMC 5.1, MicroSD
Ethernet	10/100/1000 Base-TX x 1
I/O	USB 3.2 Gen 1 x 2 HDMI x 1 LAN x 1 MicroSD x 1 OTG x 1 Antenna Hole x 1 DC Power Input x 1 2 channel CANBUS x 1 DB-9 RS-232 x 1
Expansion	—
Indicator	—
OS Support	AAEON ACLinux 4.9, Compliance with Ubuntu 18.04
Power Supply	
Power Requirement	12V with 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	4.33" x 1.57" x 2.56" (110mm x 40mm x 65mm)
Gross Weight	2.20 lb (1 kg)
Net Weight	1.10 lb (0.5 kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C, according to IEC60068-2 with 0.5 m/s AirFlow; with Industrial Device)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – eMMC
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	CANBUS	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-8110AI-A1-1010	HMP Dual Denver 2 + Quad ARM A57	—	8	1	2	—	1	1	—	—	32G eMMC	HDMI x 1	MicroSD x 1	Wallmount	12V	-20°C ~ 50°C

Packing List

- Wallmount Bracket x 2
- BOXER-8110AI

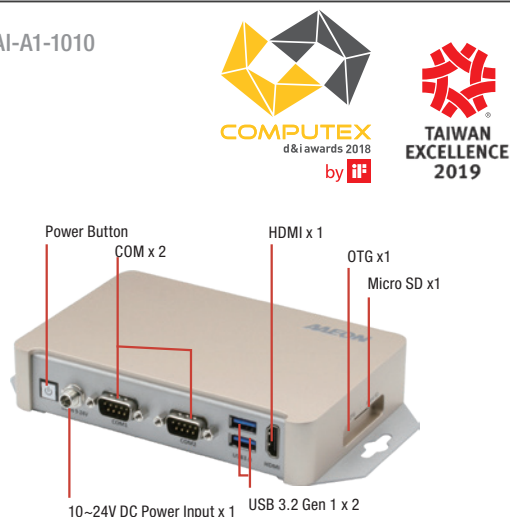
Optional Accessories

- 1255300611
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)

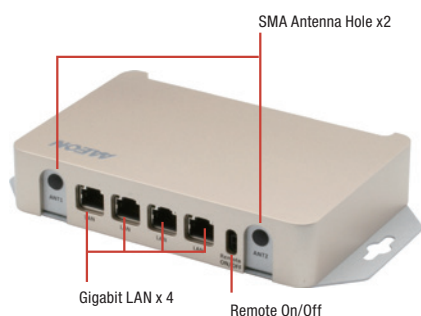
BOXER-8120AI

AI@Edge Fanless Embedded Box PC with NVIDIA Jetson TX2, 4 GbE LAN Ports

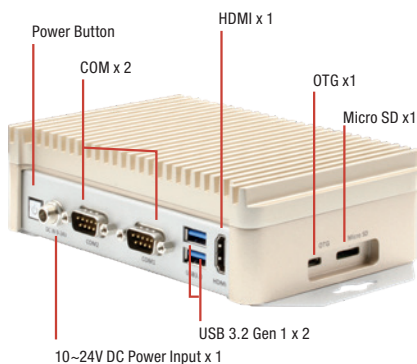
BOXER-8120AI-A1-1010
Front View



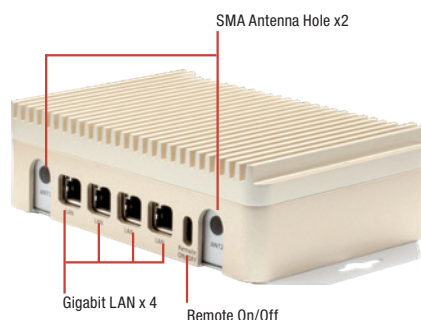
Rear View



BOXER-8120AI-A1-CS-N0001
Front View



Rear View



Features

- Nvidia Jetson TX2
- HMP Dual Denver 2 + Quad ARM A57
- Support AAEON ACLinux 4.9, Compliance with Ubuntu 18.04
- 8GB LPDDR4, 32GB eMMC 5.1
- RS-232 x 2, USB 3.2 Gen 1 x 2, OTG x 1
- HDMI 2.0 x 1, LAN x 4 (Intel i211*3, Native*1)
- Micro-SD x 1, Remote On/Off
- Power input: 10~24V

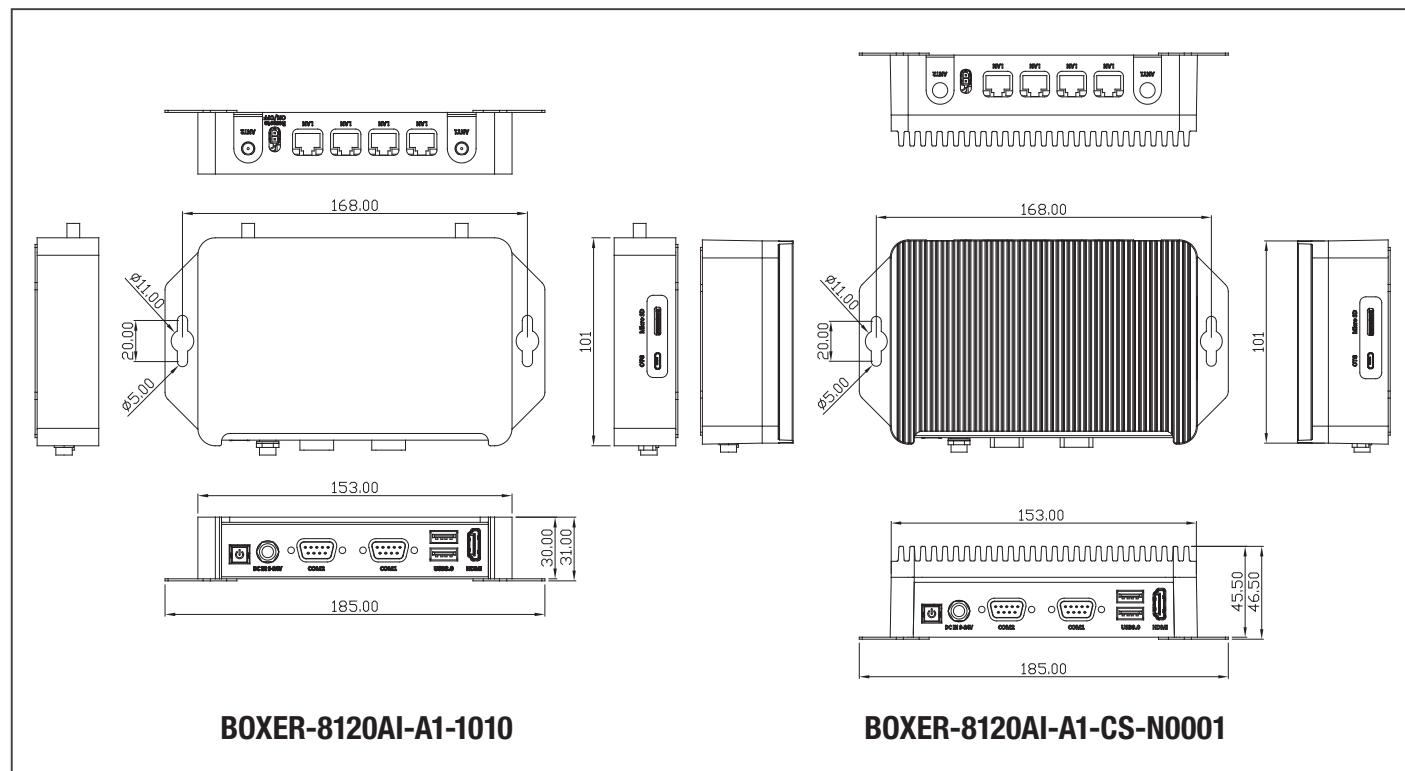


Specifications

System	
CPU	HMP Dual Denver 2 + Quad ARM A57
Chipset	—
System Memory	8GB LPDDR4
AI Solution	Nvidia Jetson TX2
Display Interface	HDMI 2.0
Storage Device	32GB eMMC 5.1 MicroSD x1
Ethernet	10/100/1000Base-TX x 4
I/O	USB 3.2 Gen 1 x 2 HDMI x 1 LAN x 4 COM x 2 OTG x 1 Power Button x 1 SMA Antenna Holes x 2 10~24V DC-In Power input x 1 Remote Power On/Off x 1
Expansion	MicroSD x1 SATA x1 (optional) USB 2.0 x 3 (optional)
Indicator	Power LED
OS Support	AAEON ACLinux 4.9, Compliance with Ubuntu 18.04
Power Supply	
Power Requirement	10~24V DC-In with DC Jack
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.02" x 1.18" x 3.98" (153mm x 30mm x 101mm) 6.02" x 1.79" x 3.98" (153mm x 45.5mm x 101mm) for CS-N0001
Gross Weight	4.40 lb (2 Kg) 5.51 lb (2.5 Kg) for CS-N0001
Net Weight	2.20 lb (1 Kg) 3.31 lb (1.5 Kg) for CS-N0001
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C, according to IEC682-14 with 0.5 m/s AirFlow; with industrial Devices) for BOXER-8120AI-A1-1010 -4°F ~ 131°F (-20°C ~ 55°C, according to IEC682-14 with 0.5 m/s AirFlow; with industrial Devices) for BOXER-8120AI-A1-CS-N0001
Storage Temperature	-13°F ~ 176°F (-25°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	Random, 5 Grms/ 5 ~ 500Hz/ operation
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-8120AI-A1-1010	HMP Dual Denver 2 + Quad ARM A57	—	8	4	2	—	2	—	—	—	32G eMMC	HDMI x 1	MicroSD x1 SATA x1 (option) USB 2.0 x 3 (option)	Wallmount	10 ~ 24V	-20°C ~ 50°C
BOXER-8120AI-A1-CS-N0001	HMP Dual Denver 2 + Quad ARM A57	—	8	4	2	—	2	—	—	—	32G eMMC	HDMI x 1	MicroSD x1 SATA x1 (option) USB 2.0 x 3 (option)	Wallmount	10 ~ 24V	-20°C ~ 50°C

Packing List

- Wallmount Bracket x 1
- Screw Package x 1
- BOXER-8120AI

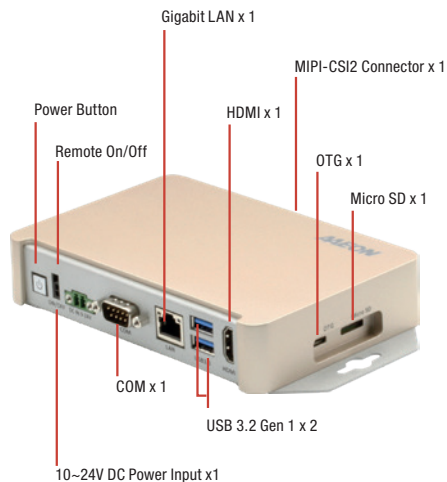
Optional Accessories

- 125530060Z
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)

BOXER-8130AI

AI@Edge Fanless Embedded Box PC with NVIDIA Jetson TX2, MIPI-CSI2 interface

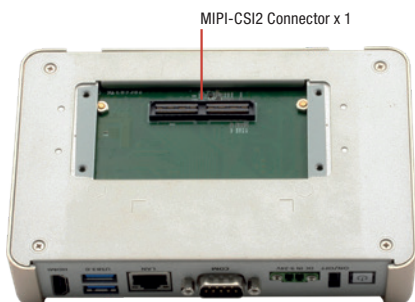
Front View



Rear View



Bottom View



Features

- Nvidia TX2 Module
- HMP Dual Denver 2 + Quad ARM A57
- 8GB LPDDR4
- 32GB eMMC 5.1
- HDMI 2.0
- USB 3.2 Gen 1 x 2
- GbE LAN x 1
- RS-232 x1
- MIPI-CSI2 connector x1
- Compact Size chassis

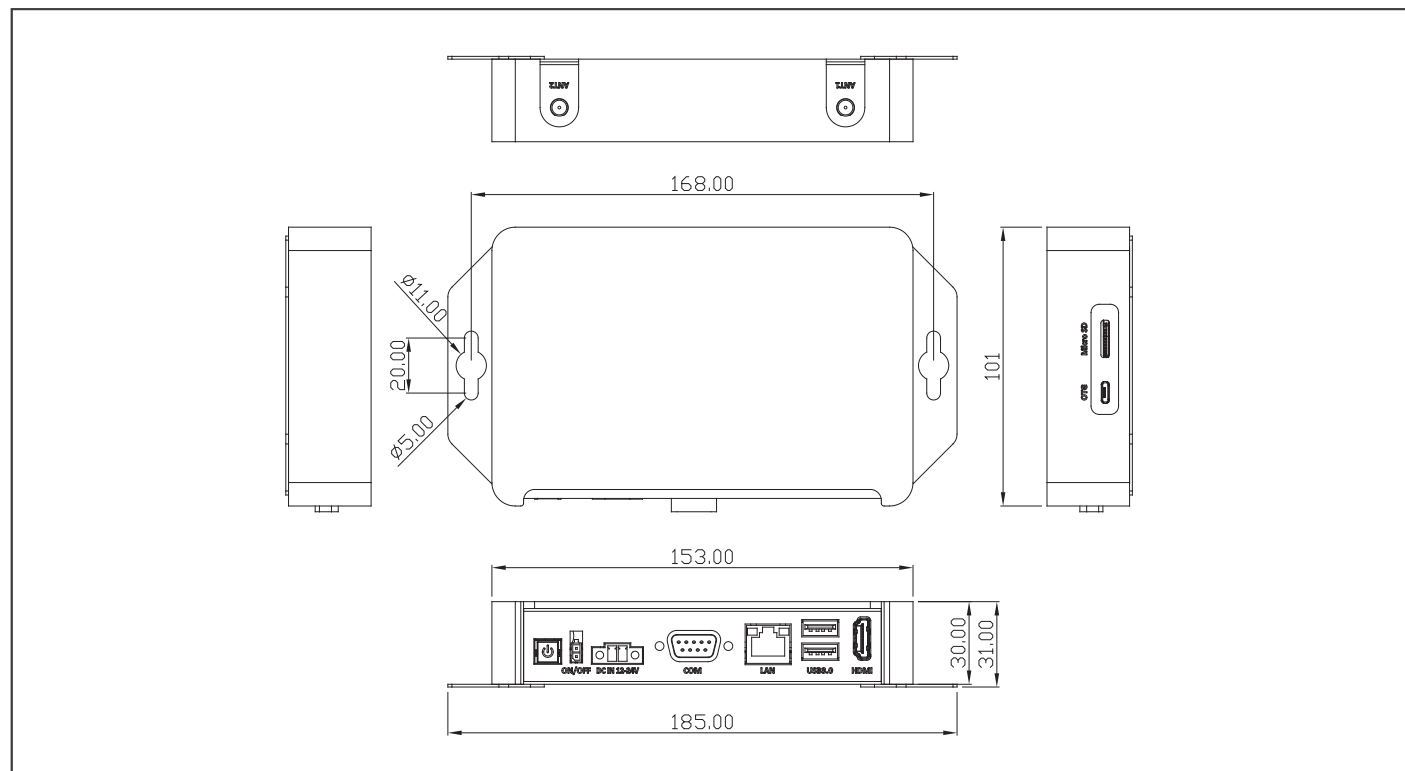


Specifications

System	
CPU	HMP Dual Denver 2 + Quad ARM A57
Chipset	N/A
System Memory	8GB LPDDR4
AI Solution	Nvidia Jetson TX2
Display Interface	HDMI 2.0 x 1
Storage Device	32GB eMMC 5.1 MicroSD
Ethernet	10/100/1000 Base-TX x 1
I/O	USB Type A x 2 for USB 3.2 Gen 1 RJ-45 x 1 for GbE LAN Ethernet DB-9 x 1 for RS-232 Remote on/off switch x 1 Antenna Holes x 2 MicroSD x 1 OTG x 1
Expansion	SATA x1 (optional) USB 2 x 3 (optional) MIPI-CSI2 board to board connector x 1 (The connector used on the carrier board is a Samtec QSH-060-01-H-D-A. The mating connector is a Samtec QTH-060-01-H-D-A.)
Indicator	Power LED
OS Support	AAEON AALinux 4.9, Compliance with Ubuntu 18.04
Power Supply	
Power Requirement	10~24V with 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.02" x 1.18" x 3.98" (153mm x 30mm x 101mm)
Gross Weight	4.40 lb (2 Kg)
Net Weight	2.20 lb (1 Kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C, with 0.5 m/s AirFlow)
Storage Temperature	-13°F ~ 176 °F (-25°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	Random, 5 Grm, 5~500Hz
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-8130AI-A1-1010	HMP Dual Denver 2 + Quad ARM A57	—	8	1	2	—	1	—	—	—	32G eMMC	HDMI x 1	MicroSD x1 SATA x1 (option) USB 2 x 3 (option) MIPI-CSI2 board to board connector x1	Wallmount	10V ~ 24V	-20°C ~ 50°C

Packing List

- Wallmount Bracket x 1
- Power Connector x 1
- BOXER-8130AI

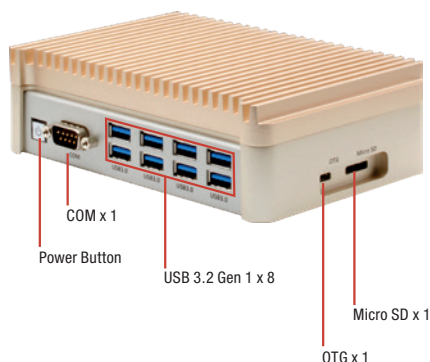
Optional Accessories

- 1255300611
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)

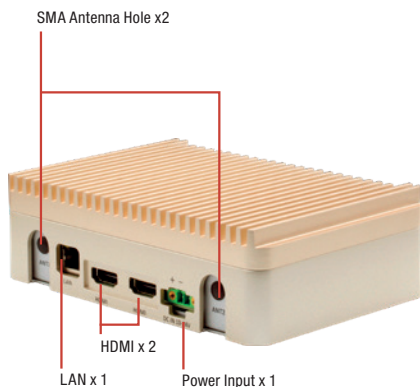
BOXER-8150AI

AI@Edge Fanless Embedded Box PC with NVIDIA Jetson TX2, 8 USB 3.2 Gen 1

Front View



Rear View



Features

- Nvidia TX2 Module
- HMP Dual Denver 2 + Quad ARM A57
- 8GB LPDDR4
- 32GB eMMC 5.1
- HDMI 2.0
- USB 3.2 Gen 1 x 8
- GbE LAN x 1, COM x 1
- Compact Size chassis

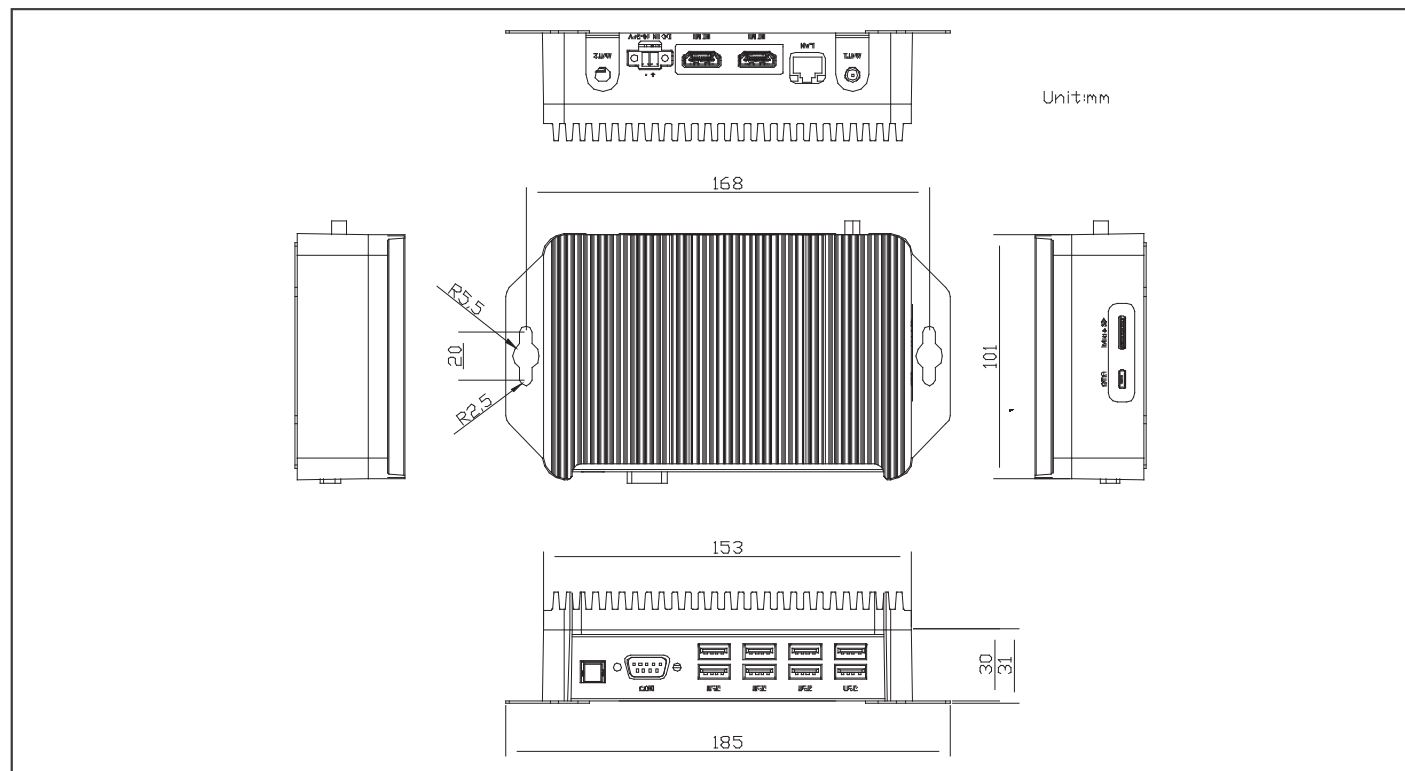


Specifications

System	
CPU	HMP Dual Denver 2 + Quad ARM® A57
Chipset	N/A
System Memory	8GB LPDDR4
AI Solution	Nvidia Jetson TX2
Display Interface	HDMI 2.0 x 2
Storage Device	32GB eMMC 5.1 MicroSD
Ethernet	10/100/1000 Base-TX x 1
I/O	USB Type A x 8 for USB 3.2 Gen 1 DB-9 x1 for RS-232 HDMI 2.0 x 2 Power Switch 2-pin 10~24V DC-in Connector RJ-45 x1 for GbE LAN Ethernet Antenna Holes x 2 MicroSD x 1 OTG x 1
Expansion	SATA x1 (optional) DB-9 RS-232 x1 (optional) 2 channel CANBUS x1 (optional)
Indicator	Power LED
OS Support	AAEON ACLinux 4.9, Compliance with Ubuntu 18.04
Power Supply	
Power Requirement	10~24V with 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.02" x 1.77" x 3.98" (153mm x 45mm x 101mm)
Gross Weight	4.40 lb (2 Kg)
Net Weight	2.2 lb (1 Kg)
Environmental	
Operating Temperature	-4°F ~122°F (-20°C ~ 50°C, according to IEC60068-2 with 0.5 m/s AirFlow; with Industrial Device)
Storage Temperature	-13°F ~176 °F (-25°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	Random, 3 Grms, 5~500Hz
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-8150AI-A1-1010	HMP Dual Denver 2 + Quad ARM A57	—	8	1	8	—	1	—	—	—	32GB eMMC	HDMI x2	MicroSD x1 SATA x1 (option) DB-9 RS-232 x1 (option) 2 channel CANBUS x1 (option)	Wallmount	10V ~ 24V	-20°C ~ 50°C

Packing List

- Wallmount Bracket x 1
- Power Connector x 1
- BOXER-8150AI

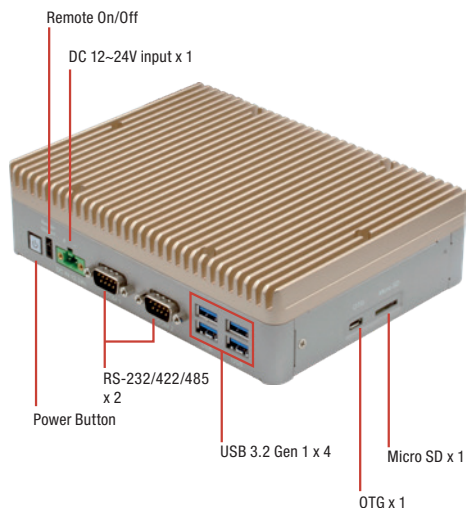
Optional Accessories

- 1255300611
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)

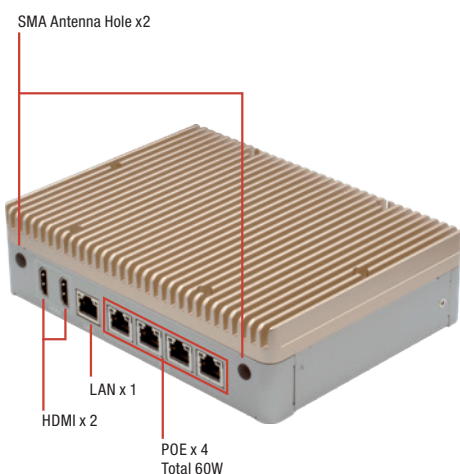
BOXER-8170AI

AI@Edge Fanless Embedded Box PC with NVIDIA Jetson TX2, 4 PoE LAN

Front View



Rear View



Features

- Designed for Embedded AI vehicle Controller
- Gigabit Ethernet x 1 and 802.3af PoE x 4 for surveillance
- Nvidia TX2 Module
- HMP Dual Denver 2 + Quad ARM A57
- 8GB LPDDR4
- 32GB eMMC 5.1
- HDMI 2.0 x 2
- USB 3.2 Gen 1 x 4
- COM x 2
- DC 12 ~ 24V

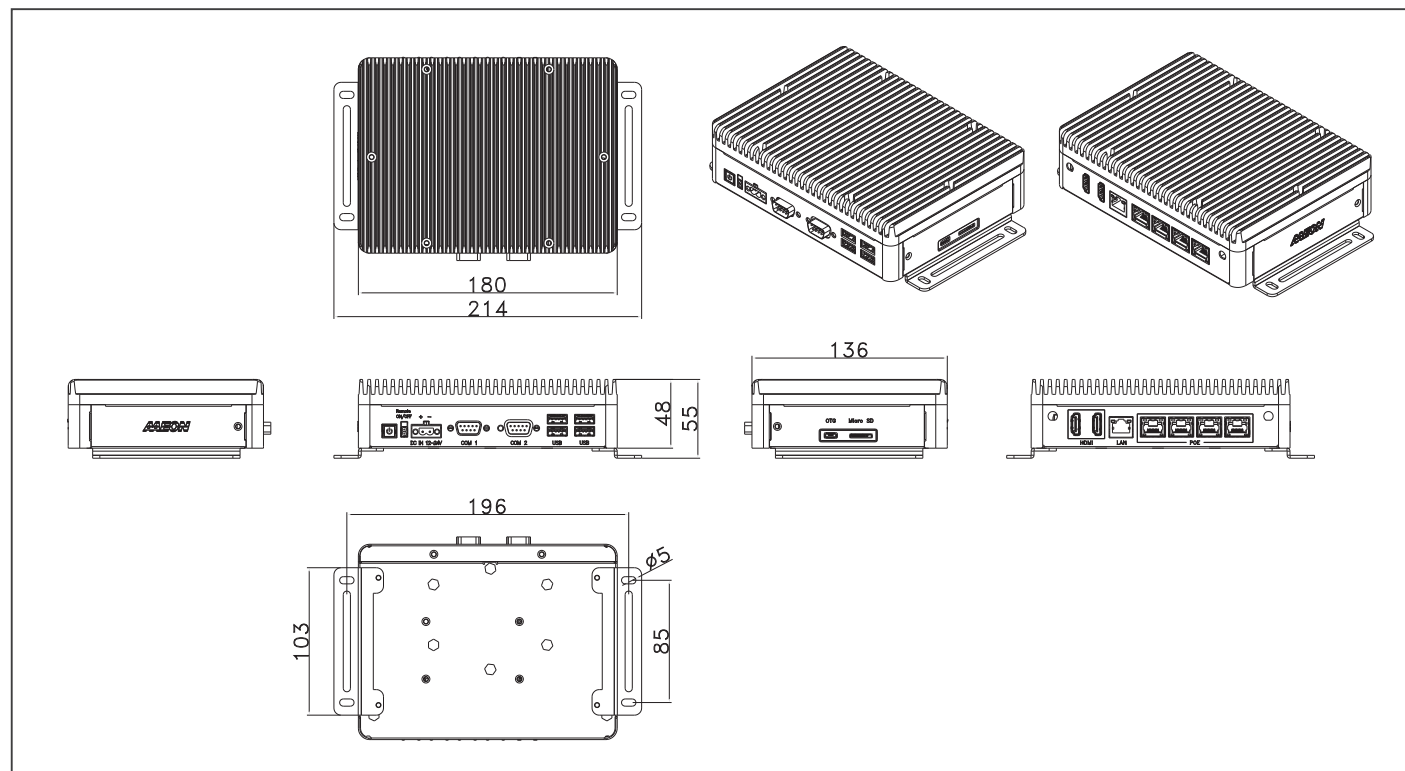


Specifications

System	
CPU	HMP Dual Denver 2 + Quad ARM A57
Chipset	N/A
System Memory	8GB LPDDR4
AI Solution	Nvidia Jetson TX2
Display Interface	HDMI 2.0
Storage Device	32GB eMMC 5.1 Micro-SD
Ethernet	10/100/1000 Base-TX x 1 IEEE 802.3 af PoE LAN x 4
I/O	RJ-45 x 1 for GbE LAN IEEE 802.3af PoE x 4 (60W total power budget) HDMI Type A x2 for HDMI 2.0 USB Type A x 4 for USB 3.2 Gen 1 DB-9 RS-232/422/485 x 2 Power On/Off Button x 1 DC-In 2-pin terminal block x 1 USB OTG x 1 12~24V DC-in Power Input x 1 SMA Antenna Holes x 2
Expansion	SATA x 1 (optional) USB 2 x 1 (optional) 2 Channel CANBUS x 1 (optional)
Indicator	Power LED
OS Support	AAEON ACLinux 4.9, Compliance with Ubuntu 18.04
Power Supply	
Power Requirement	12 ~ 24V with 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	7.09" x 1.89" x 5.35" (180 mm x 48 mm x 136 mm)
Gross Weight	6.39 lb (2.9 Kg)
Net Weight	4.73 lb (2.15 Kg)
Environmental	
Operating Temperature	-20°C ~ 50°C (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-40°F ~176 °F (-40°C ~ 80°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	RAM	LAN	PCH	POE	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-8170AI-A1-1010	8GB LPDDR4	1	—	4	4	0	—	2	—	—	32GB eMMC	HDMI x 2	MicroSD x1 SATA x1 (option) USB 2 x1 (option) 2 Channel CANBUS x1 (option)	Wallmount	24V DC-in (12V testing)	-20°C ~ 50°C

Packing List

- Wallmount Bracket x 2
- Power Connector x 1
- Screw Pack x 1
- BOXER-8170AI

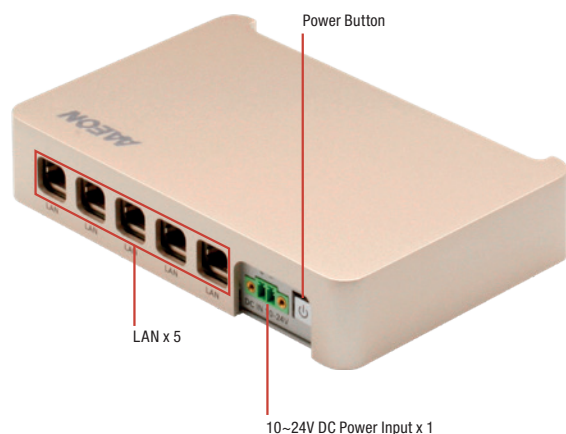
Optional Accessories

- **1255900849**
Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)

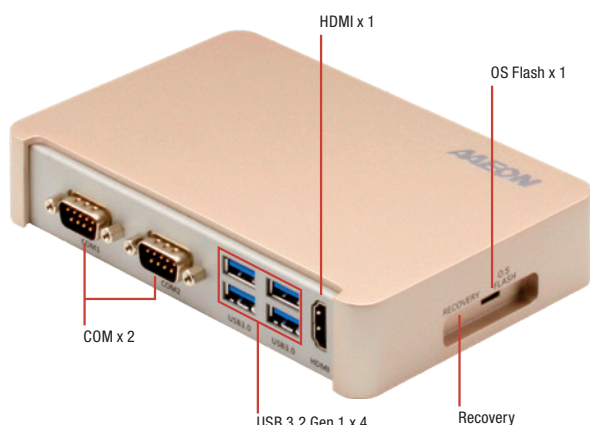
BOXER-8220AI

AI@Edge Fanless Embedded Box PC with NVIDIA Jetson Nano, 5 GbE LAN Ports

Front View



Rear View



Features

- NVIDIA Jetson nano
- Quad Core ARM A57 Processor
- 4GB LPDDR4 + 16GB Micro-SD or eMMC
- LAN x 5
- USB 3.2 Gen 1 x 4
- 10-24Vdc Power input

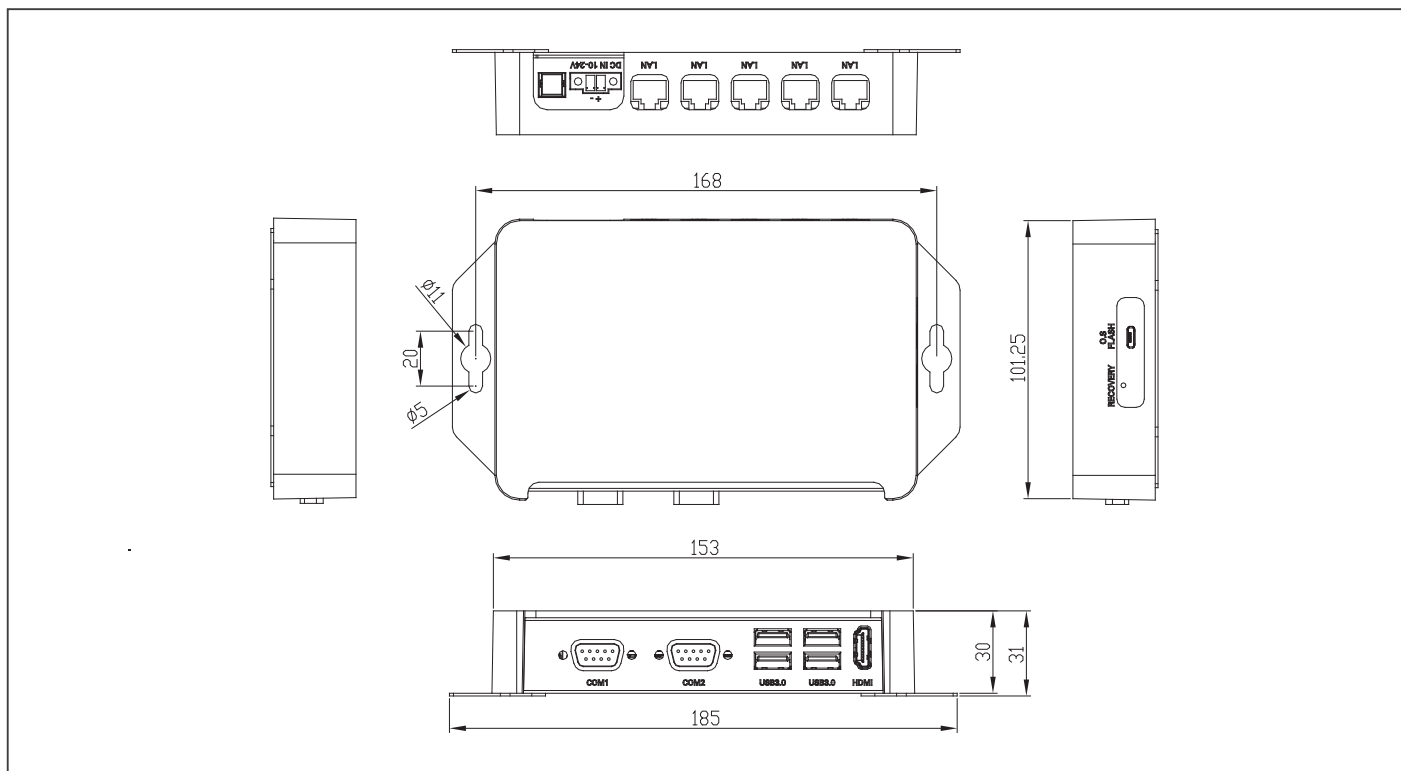


Specifications

System	
CPU	Quad Core ARM® Cortex®-A57 MPCore Processor
Chipset	—
System Memory	4GB LPDDR4
AI Solution	Nvidia Jetson Nano
Display Interface	HDMI 2.0
Storage Device	16GB Micro-SD or eMMC
Ethernet	10/100/1000Base-TX x 5
I/O	USB 3.2 Gen 1 x 4 LAN x 5 RS-232 x 2 HDMI x 1 Micro-USB for Flash OS x 1 DC Power Input x 1 Power Button x 1 Recovery Button x 1
Expansion	—
Indicator	Power LED x 1
OS Support	ACLinux 4.9 or above (Compatible with Ubuntu 18.04)
Power Supply	
Power Requirement	10 ~ 24V DC with 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	6.06" x 3.98" x 1.18" (154 mm x 101 mm x 30 mm)
Gross Weight	4.40 lbs (2 Kg)
Net Weight	2.20 lbs (1 Kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C, according to IEC60068-2 with 0.5 m/s AirFlow)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – MicroSD or eMMC
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	AI solution	LAN	USB 3.2 Gen 1	RS-232	Storage	Display	Mounting	Power	Operation temp.
BOXER-8220AI-A1-1010	Jetson Nano	5	4	2	16GB MicroSD x 1	HDMI x 1	Wallmount	10~24V	-20°C ~ 60°C

Packing List

- Wallmount Bracket x 2
- Power Connector x 1
- BOXER-8220AI

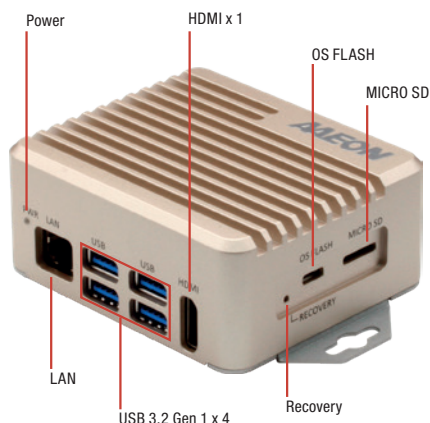
Optional Accessories

- 1255300611
60W Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

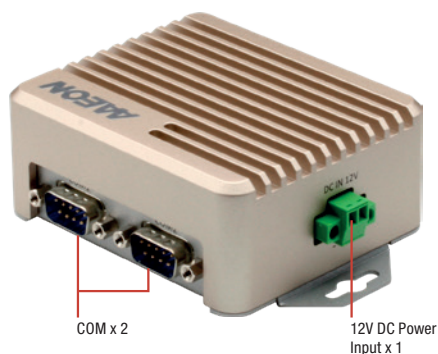
BOXER-8221AI

AI@Edge Compact Fanless Embedded BOX PC with NVIDIA Jetson Nano

Front View



Rear View



Features

- NVIDIA Jetson nano
- Quad core ARM A57 Processor
- 4GB LPDDR4 + 16GB Micro-SD or eMMC
- LAN x 1 + RS-232 x 2
- 12Vdc Power input

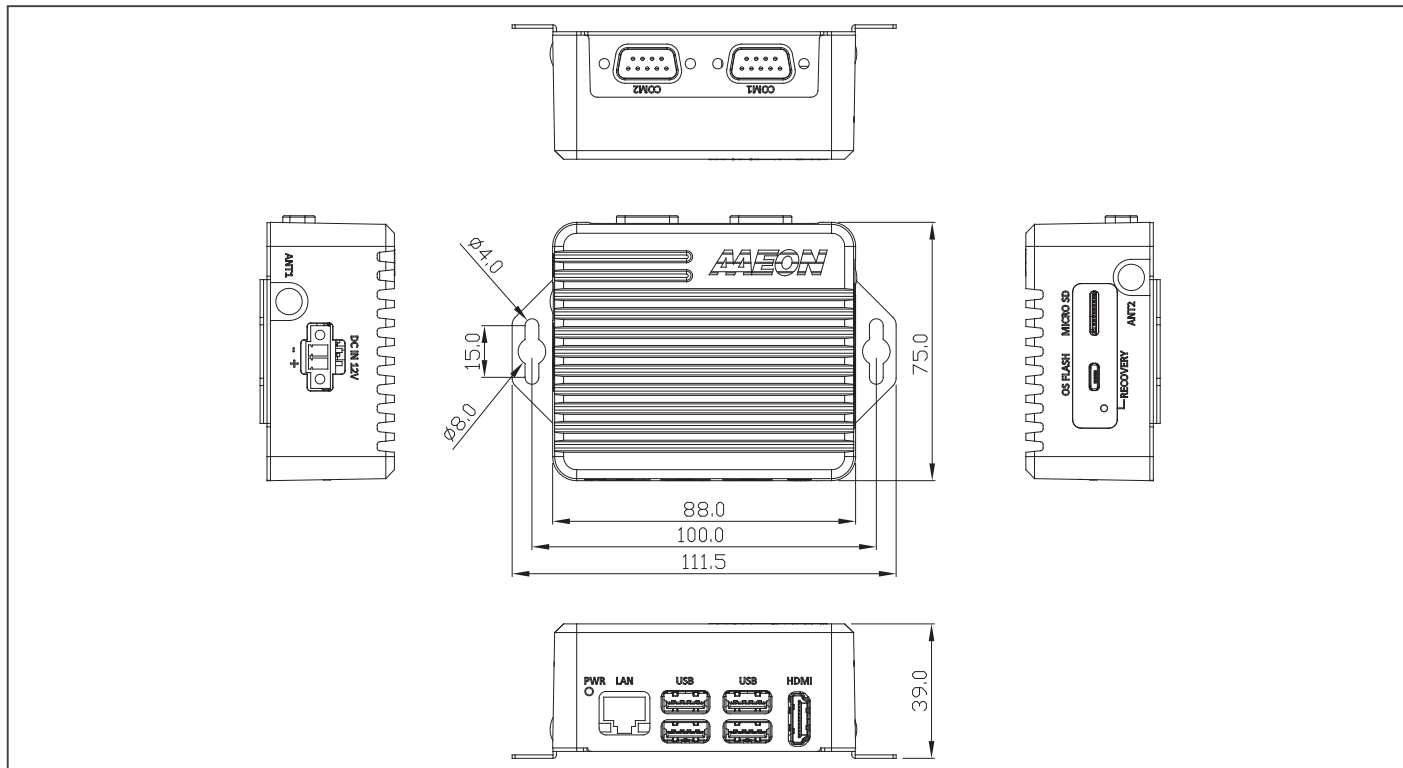


Specifications

System	
CPU	Quad Core ARM® Cortex®-A57 MPCore Processor
Chipset	—
System Memory	4GB LPDDR4
AI Solution	Nvidia Jetson Nano
Display Interface	HDMI 2.0
Storage Device	16GB Micro-SD or eMMC
Ethernet	10/100/1000Base-TX x 1
I/O	USB 3.2 Gen 1 x 4 LAN x 1 RS-232 x 2 HDMI x 1 MicroSD x 1 DC Power Input x 1 Recovery Button x 1 Micro-USB for Flash OS x 1
Expansion	M.2 E-Key 2230 x 1(for WiFi)
Indicator	Power LED x 1
OS Support	Linux (AAEON ACLinux 4.9, Compliance with Ubuntu 18.04)
Power Supply	
Power Requirement	12Vdc w/ 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	3.39" x 2.87" x 1.3" (88mm x 75mm x 39mm)
Gross Weight	2.20 lb (1 Kg)
Net Weight	0.88 lb (0.4 Kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C, according to IEC60068-2 with 0.5 m/s AirFlow)
Storage Temperature	-49°F ~176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – MicroSD or eMMC
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	AI solution	LAN	USB 3.2 Gen 1	RS-232	Storage	Display	Mounting	Power	Operation temp.
BOXER-8221AI-A1-1010	Jetson Nano	1	4	2	16GB MicroSD x 1	HDMI x 1	Wallmount	12Vdc w/ 2 pin terminal block	-20°C ~ 50°C

Packing List

- Wallmount Bracket x 2
- Power Connector x 1
- BOXER-8221AI

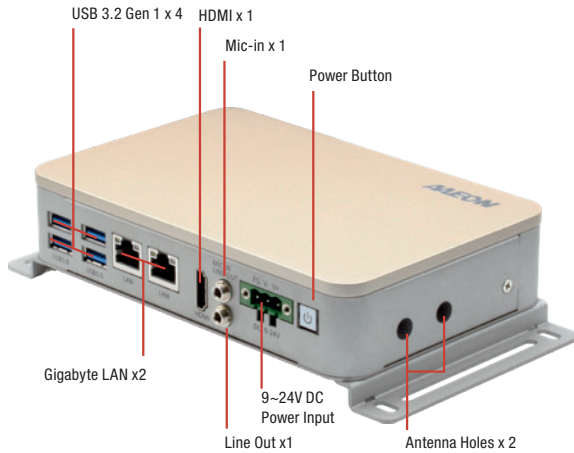
Optional Accessories

- 1255300611
60W Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

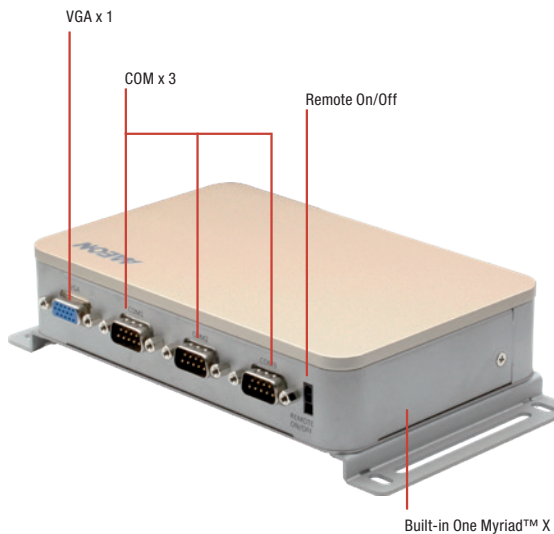
BOXER-8310AI

AI@Edge Din Rail Mount Embedded BOX PC with Intel® Movidius™ Myriad™ VPU & Intel® Pentium™ Processor

Front View



Rear View



Features

- Design for AI@Edge application
- Built-in Intel® Movidius™ Myriad™ X VPU, support AI computing
- Slim Boxer Design: 35mm
- Rich I/O, Design for Auto System Control
- Gigabit Ethernet x 2, USB 3.2 Gen 1 x 4
- Support Wallmount

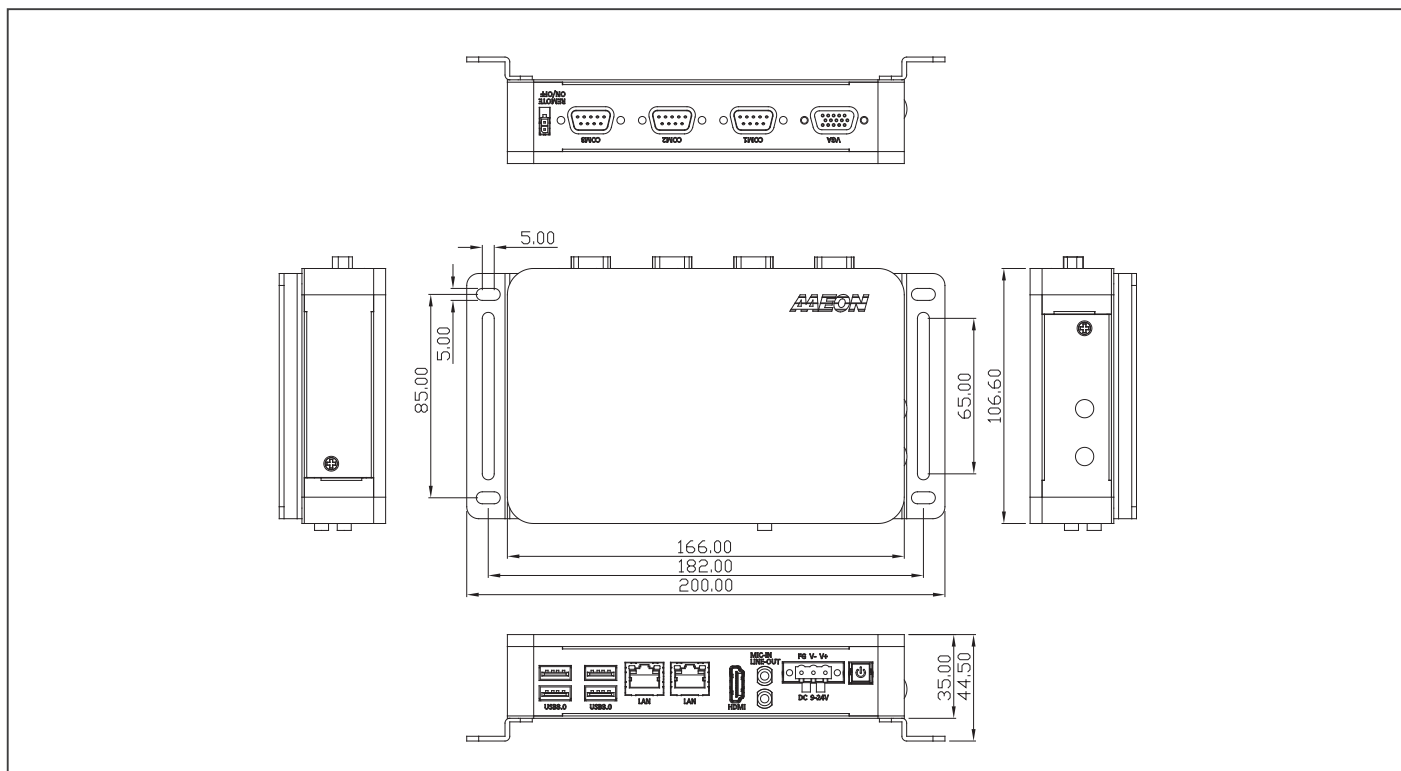


Specifications

System	
CPU	Intel® Pentium® N4200 Intel® Celeron® N3350
Chipset	Intel® System on Chip
System Memory	DDR3L SODIMM slot x 1 Supports 1867 MHz and up to 8GB
AI Solution	Intel® Movidius™ Myriad™ X x 1
Display Interface	HDMI 1.4 VGA
Storage Device	mSATA
Ethernet	10/100/1000 Base-TX x 2
I/O	Power Button x 1 USB Type A x 4 for USB 3.2 Gen 1 HDMI type A x 1 for HDMI v1.4b RJ45 x 2 for GbE LAN with LED indicator (i211-AT x2) Power Input x 1 3-pin terminal block in default (+, -, GND) Co-layout Mic-in x 1, Line-out x 1 DB-9 x 3 for RS-242/422/485 (Switch by BIOS) DB-15 x 1 for VGA Remote On/Off Antenna Holes x 2 DC-in 3-pin terminal block (9~24V) x 1
Expansion	Half-size Minicard slot x 1 (mSATA only)
Indicator	Power LED x1, HDD active LED x 1
OS Support	Linux (Debian 9.8)
Power Supply	
Power Requirement	3 Pin 9-24V DC-in terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.54" x 4.2" x 1.38" (166mm x 106.6mm x 35mm)
Gross Weight	3.6 lb (1.6 kg)
Net Weight	1.3 lb (0.6 kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C) with W.T. SSD (according to IEC68-2-14 with 0.5 m/s airFlow ; with industrial devices)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – mSATA
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	AI Solution	Mounting	Power	Operation temp.
BOXER-8310AI-A1-1010	N3350	SoC	—	2	4	—	—	3	—	MIC-in, Line-out	Half size miniCard for mSATA x1	VGA/ HDMI x1	Intel® Movidius™ Myriad™ X x 1	Wallmount	9~24V	-25°C ~ 55°C
BOXER-8310AI-A2-1010	N4200	SoC	—	2	4	—	—	3	—	MIC-in, Line-out	Half size miniCard for mSATA x1	VGA/ HDMI x1	Intel® Movidius™ Myriad™ X x 1	Wallmount	9~24V	-25°C ~ 55°C

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- BOXER-8310AI

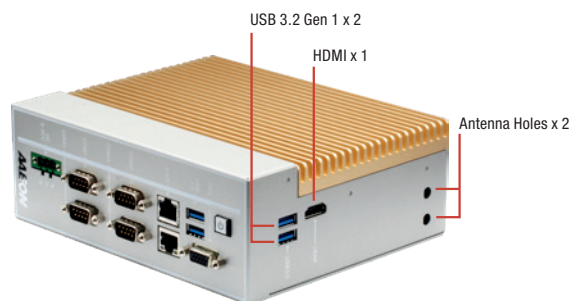
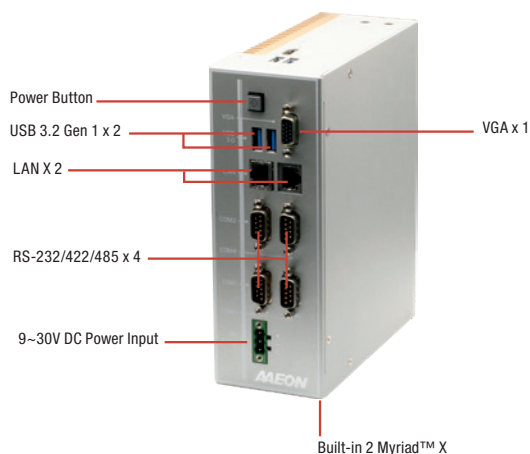
Optional Accessories

- 125530040F
40W Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 9741640404
Din Rail Mount Kit

BOXER-8320AI

AI@Edge Din Rail Mount Embedded BOX PC with Dual Intel® Movidius™ Myriad™ VPU & Intel® Core™ i3-6100U Processor

Front View



Features

- Design for AI@Edge application
- Built-in dual Intel® Movidius™ Myriad™ X VPUs, support AI computing
- Built-in Intel® Core™ i3-6100U Processor
- DDR4 SO-DIMM slot x 1, Support 2133MHz and up to 16GB
- Supports Industrial-grade Intel® GbE LAN x 2
- Supports BIOS Selectable RS-232/422/485 x 4
- VGA + HDMI Dual Display Output
- USB 3.2 Gen 1 x 4
- 8-bit Digital Input and Output x 1 (Optional)
- Wide Range DC 9~30V Input With Power Protection
- Din-Rail Mount Design

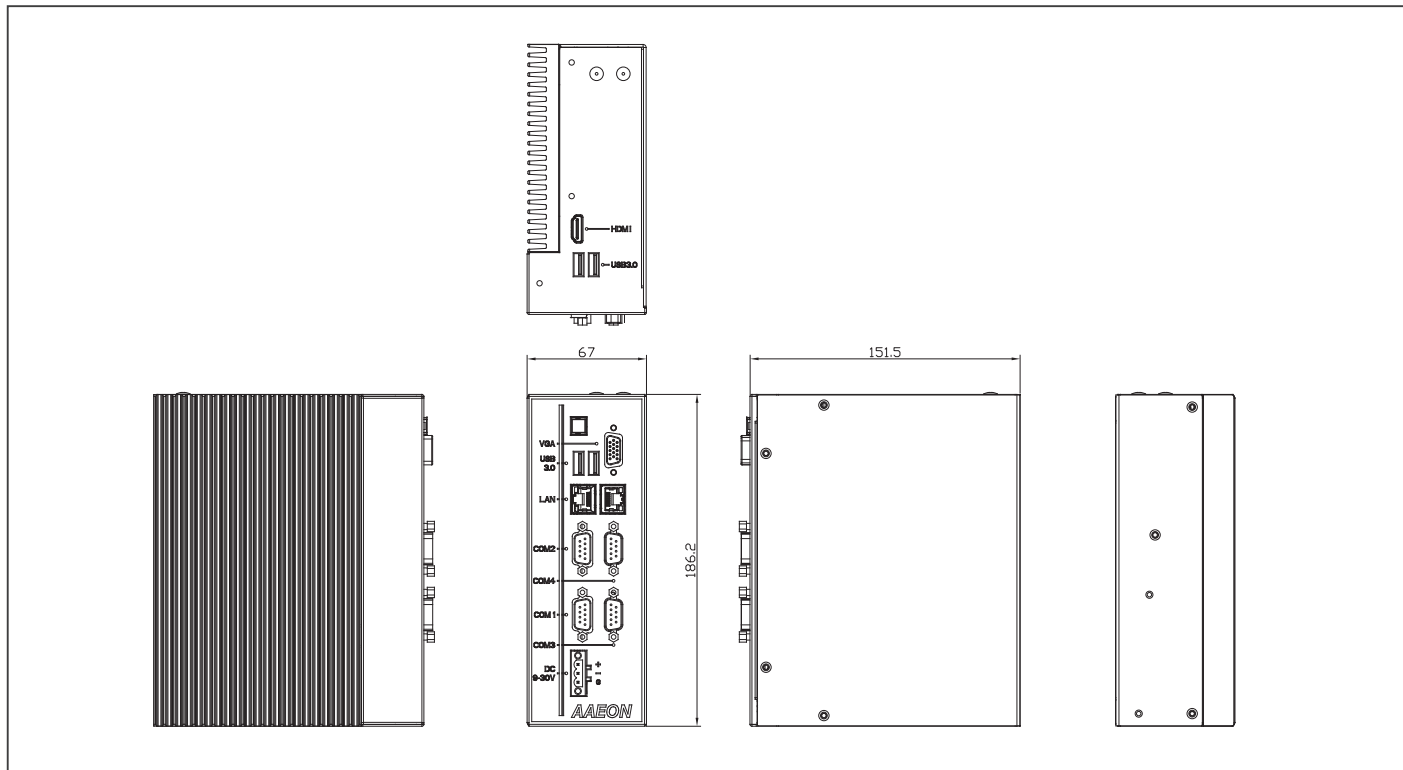


Specifications

System	
CPU	Intel® Core™ i3-6100U
Chipset	Intel® System on Chip
System Memory	DDR4 SO-DIMM slot x 1, Support 2133MHz and up to 16GB
AI Solution	Intel® Movidius™ Myriad™ X x 2
Display Interface	HDMI, VGA
Storage Device	HDD/SSD
Ethernet	10/100/1000 Base-TX x 2
I/O	DB-9 x4 for RS-232/422/485 RJ-45 x 2 for GbE (i210IT x 2) USB 3.2 Gen 1 x 4 VGA x 1 HDMI x 1 Antenna Holes x 2 Power Button Power Input
Expansion	—
Indicator	Power LED
OS Support	Linux (Debian 9.8)
Power Supply	
Power Requirement	9~30V with 3-pin terminal block
Mechanical	
Mounting	DIN Rail Mount Wallmount (Mounting kit is optional)
Dimensions (W x H x D)	2.68" x 7.33" x 5.96" (67mm x 186.2mm x 151.5 mm)
Gross Weight	6.1 lb (2.8 kg)
Net Weight	3.9 lb (1.8 kg)
Environmental	
Operating Temperature	-13°F ~140°F (-25°C ~ 60°C) with W.T. SSD (according to IEC68-2-14 with 0.5 m/s airFlow ; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation - SSD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	AI Solution	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Mounting	Power	Operation temp.
BOXER-8320AI-A1-1010	Intel® Core™ i3-6100U	Intel® Movidius™ Myriad™ X x 2	—	2	4	—	—	4	—	—	2.5" SATA Drive Bay x1	VGA x 1 HDMI x 1	Din Rail Optional Wallmount	9~30V	-25°C ~ 60°C

Packing List

- Din Rail Bracket x 1
- Screw Package x 1
- 3 Pin DC-in Power Connector x 1
- BOXER-8320AI

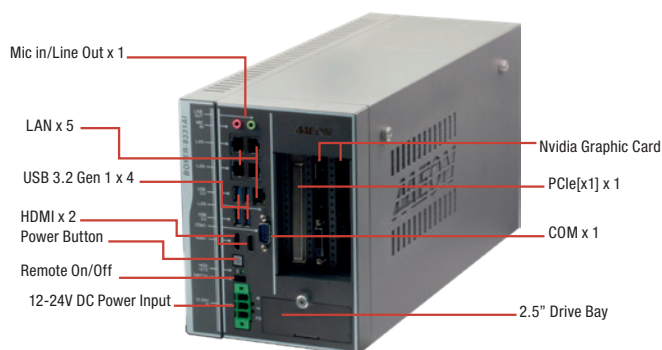
Optional Accessories

- **1255900849**
84W Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)
- **9741909A00**
Wifi 802.11 a/b/g/n + BT 4.0 Kit
- **9741UC20G0**
3G module Kit
- **9741640404**
Din Rail Mount Kit

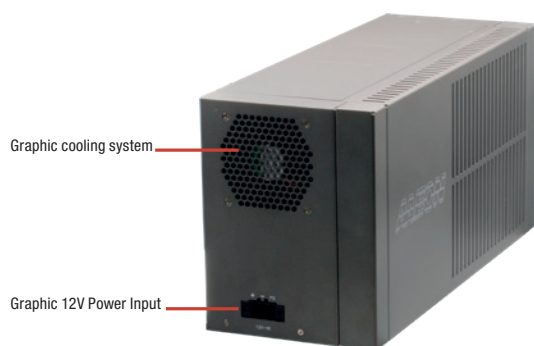
BOXER-8331AI

AI@Edge Box PC with 6th / 7th Gen Intel® Core™ i and Xeon® Processor

Front View



Rear View



Features

- Support 6th / 7th Core™ i desktop and Xeon® server-grade processor, Max 73W.
- Intel® C236 PCH
- Built in RTX-2060 GPU Card (A1)
- Built in RTX-2080Ti GPU Card (A2)
- Wide Range Power Input: 12-24Vdc

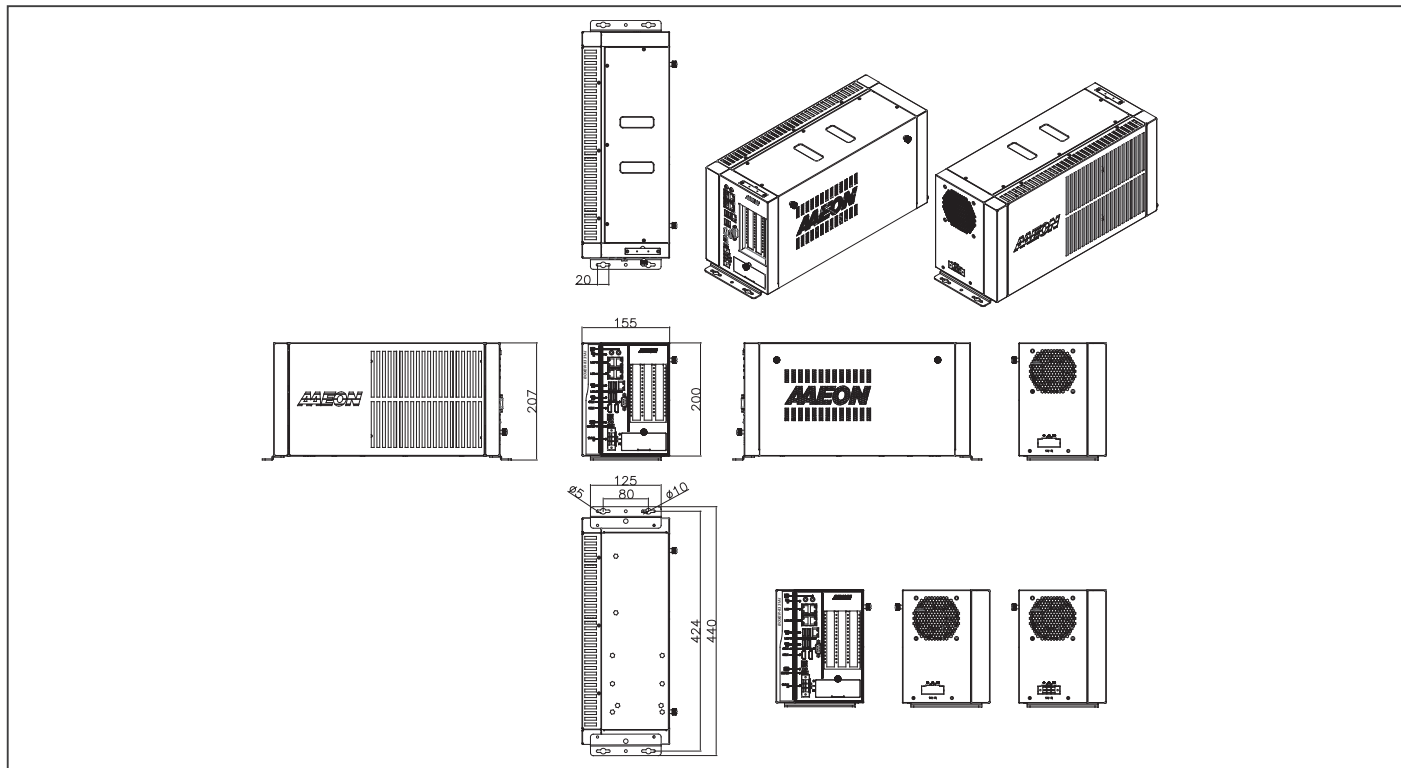


Specifications

System	
CPU	6th / 7th Gen Intel® Core™ i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i3-7101TE, 3.4 GHz Intel® Xeon® E3-1268L v5, 2.40 GHz Intel® Xeon® E3-1275 v6, 3.80 GHz
Chipset	Intel® C236 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
AI Solution	Nvidia RTX Graphic Card
Display Interface	System : HDMI 1.4b (Debug Mode Only) Nvidia RTX Graphic Card Display
Storage Device	2 x 2.5" Drive Bay
Ethernet	10/100/1000 Base-TX x 5
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI type A x 2 for HDMI v1.4b Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, -, GND) RJ-45 x5 for GbE LAN (Intel i211AT x 4, i219LM x 1)
Expansion	Full-size Mini card x 2 (USB/miniPCIe, w/ 1 SIM slot) Built in RTX-2060 Super GPU Card (A1) Built in RTX-2080Ti GPU Card (A2) 1 x PCIe[x1]
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	System Power DC 12~24V 240W x1 Graphic Card Power DC 12V 240W x1
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)
Gross Weight	18.29 lb (8.3 Kg)
Net Weight	14.53 lb (7 Kg)
Environmental	
Operating Temperature	0°C ~ 40°C according to IEC60068-2 with 0.5 m/s AirFlow ; with industrial devices
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40C, non-condensing
Anti-Vibration	Random, 1Grms, 5~500Hz, anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-8331AI-A1-1010	—	C236	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x2	RTX-2060 Super Display Output	RTX-2060 Super GPU Card 1 x PCIe[x1]	Wallmount	System Power: DC 12~24V 240W x1 Graphic Card Power: DC 12V 240W x1	0°C ~ 40°C with 0.5m/s airflow
BOXER-8331AI-A2-1010	—	C236	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x2	RTX-2080Ti Display Output	RTX-2080Ti GPU Card 1x PCIe[x1]	Wallmount	System Power: DC 12~24V 240W x1 Graphic Card Power: DC 12V 240W x1	0°C ~ 40°C with 0.5m/s airflow

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-8331AI

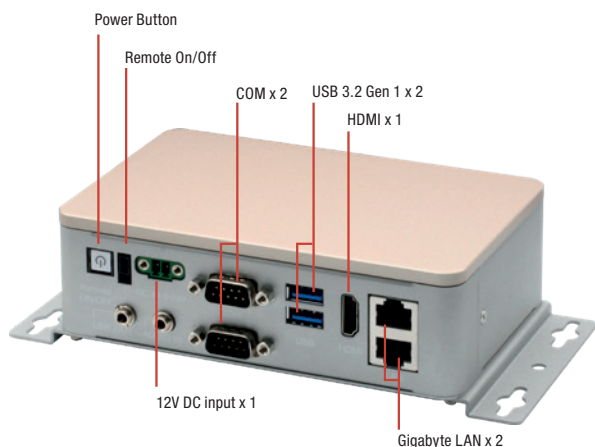
Optional Accessories

- 1255902400
240W Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 9741238H00
WiFi Module & Antenna
- 9741EC20E0
4G Module & Antenna (for Europe)
- 9741EC25A0
4G Module & Antenna (for USA-AT&T)
- 9741EC25V0
4G Module & Antenna (for USA-Verizon)

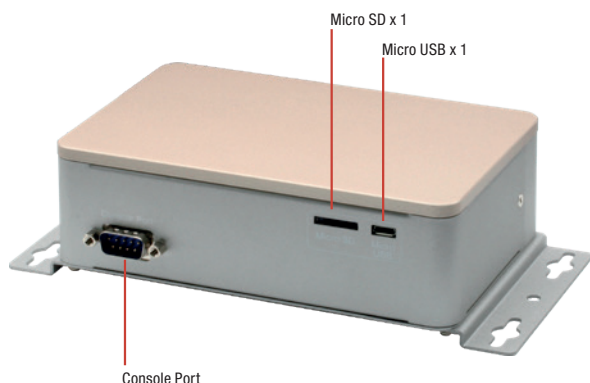
BOXER-8410AI Preliminary

AI@Edge Fanless Embedded Box PC with HiSilicon HI3559A Platform and MIPI-CSI2 connector

Front View



Rear View



Features

- HiSilicon Hi3559A
- 4GB/8GB LPDDR4
- 32GB/64GB eMMC 5.1
- HDMI 2.0
- USB 3.2 Gen 1 x 2
- GbE LAN x 2

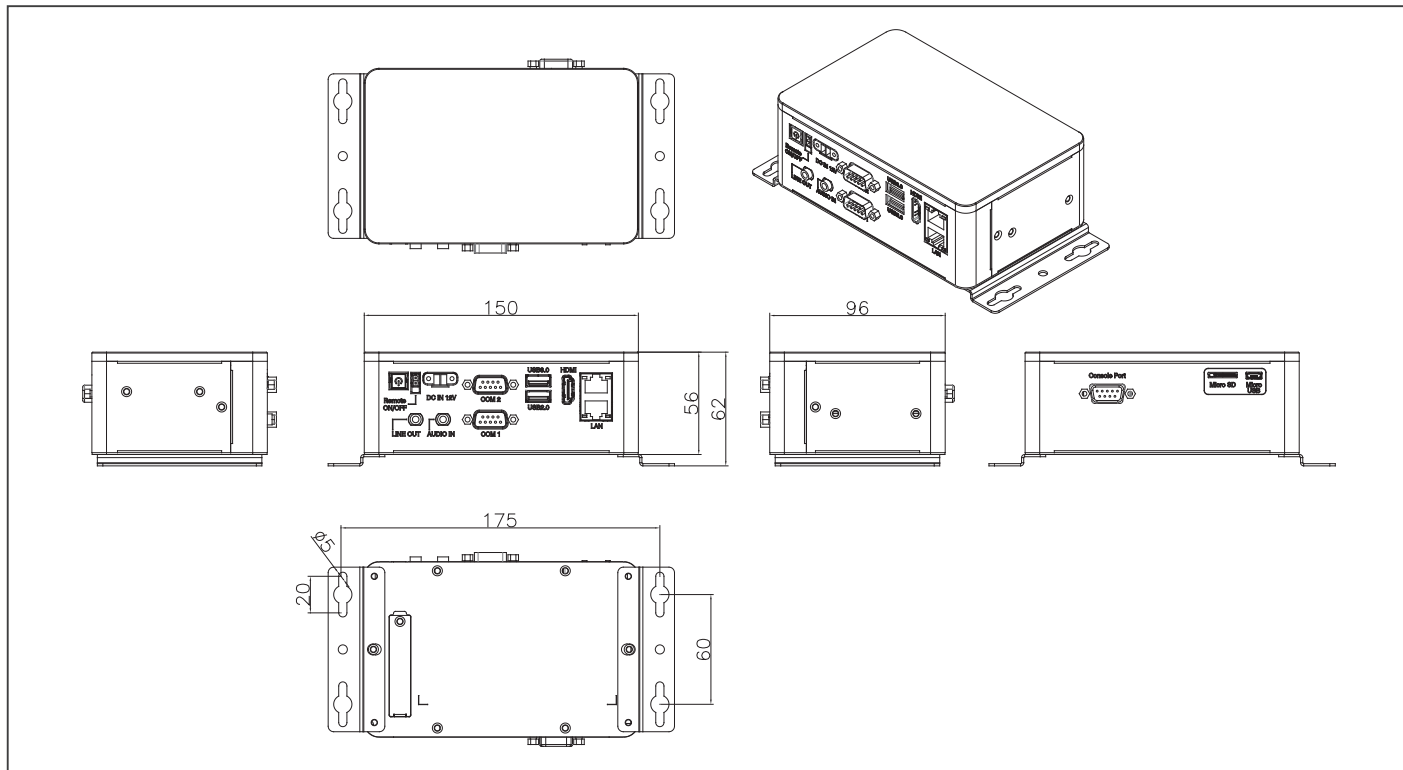


Specifications

System	
CPU	Dual-Core A73 / Dual-Core A53 / Single-Core A53
GPU	Triple core ARM Mali-G71 GPU
System Memory	4GB/8GB LPDDR4
AI Accelerator	Dual-Core DSP Dual-Core CNN Engine
Display Interface	HDMI 2.0 x 1
Storage Device	32GB/64GB eMMC 5.1 Micro-SD
Ethernet	10/100/1000Base-TX x 2
I/O	USB Type A x 2 for USB 3.2 Gen 1 RJ-45 x 2 for GbE LAN Ethernet DB-9 x 2 for RS-232 Remote on/off switch x 1 Antenna Holes x 2 MicroSD x 1 MicroUSB OTG x 1 DB-9 x 1 for Console Port
Expansion	MIPI-CSI2 board to board connector x 1
Indicator	Power LED x 1
OS Support	Linux
Power Supply	
Power Requirement	12Vdc w/ 2-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	153mm(W) x 30mm(H) x 101mm(D)
Gross Weight	4.40 lb (2 Kg)
Net Weight	2.20 lb (1 Kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C, according to IEC60068-2 with 0.5 m/s AirFlow)
Storage Temperature	-13°F ~ 176 °F (-25°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	Random, 3 Grm, 5~500Hz
Certification	CE/FCC class A

Dimension

Unit: mm



BOXER-8411AI

Preliminary

AI@Edge Fanless Embedded Box PC with HiSilicon HI3559A Platform and PD Function

Launching in Q1

Features

- HiSilicon Hi3559A
- 8GB LPDDR4 + 64GB eMMC5.1 onboard
- Powered Device (802.3at @ 25W)
- USB 3.2 Gen 1 x 2
- GbE LAN x 2



Specifications

System	
CPU	Dual-Core A73 / Dual-Core A53 / Single-Core A53
GPU	Triple core ARM Mali-G71 GPU
System Memory	8GB LPDDR4
AI Accelerator	Dual-Core DSP Dual-Core CNN Engine
Display Interface	HDMI 2.0 x 1
Storage Device	64GB eMMC 5.1 Micro-SD
Ethernet	10/100/1000Base-TX x 2
I/O	USB Type A x 2 for USB 3.2 Gen 1 RJ-45 x 1 for GbE LAN RJ-45 x 1 for PD (Powered Device) (802.at) (25W) DB-9 x 1 for Console Mode 3-pin terminal block x 1 for RS-485 MicroSD x 1 MicroUSB OTG x 1
Expansion	—
Indicator	Power LED x 1
OS Support	Linux
Power Supply	
Power Requirement	12Vdc with DC Jack
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	TBD
Gross Weight	TBD
Net Weight	TBD
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C, according to IEC60068-2 with 0.5 m/s AirFlow)
Storage Temperature	-13°F ~ 176 °F (-25°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	Random, 5 Grm, 5~500Hz
Certification	CE/FCC class A

AI@Edge Fanless Embedded Box PC with Google Edge TPU with 4 PoE

Launching in Q1

Features

- Built-in Google Edge TPU
- Supports Mendel Linux (derivative of Debian)
- 1GB LPDDR4 + 8GB eMMC
- 4 x PoE + 1 x LAN
- Micro-SD x 1
- Power Input: 12-24Vdc



Specifications

System	
CPU	NXP i.MX 8M SoC (Quad-core Cortex-A53, plus Cortex-M4F)
GPU	Vivante GC7000Lite
System Memory	1GB LPDDR4
AI Accelerator	Google Edge TPU ML accelerator coprocessor
Display Interface	HDMI 2.0 x 1
Storage Device	16GB eMMC onboard Micro-SD
Ethernet	10/100/1000Base-TX x 1
I/O	USB 3.2 Gen 1 x 2 HDMI x 1 LAN x 1 (10/100/1000 Base-T) MicroSD x 1 OTG x 1 Antenna Hole x 1 DC Power Input x 1 RS-232 x 1 (DB-9) PoE x 4 (10/100 Base-T) (802.3af)(Total 40W)
Expansion	—
Indicator	Power LED x 1
OS Support	Mendel Linux (derivative of Debian)
Power Supply	
Power Requirement	12-24Vdc, 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x D x H)	TBD
Gross Weight	TBD
Net Weight	TBD
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C, according to IEC60068-2 with 0.5 m/s AirFlow)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	1 Grms/5-500Hz/operation
Certification	CE/FCC class A

IoT Gateway/Node Systems

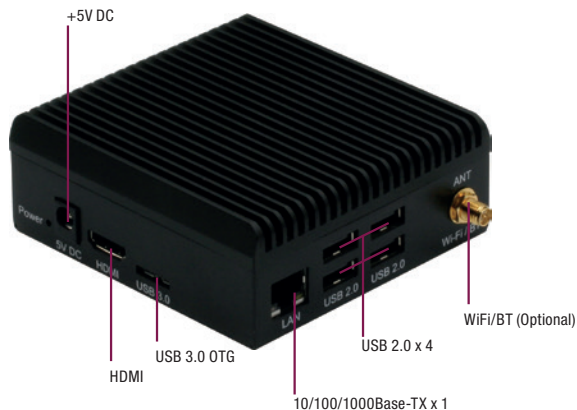
02



UP-GWS01

Tiny Gateway System with UP Board

Front View



Rear View



Features

- Intel® Atom™ x5-Z8350 SoC
- Onboard DDR3L Memory
- Onboard eMMC Storage
- Gigabit LAN x 1, USB 2.0 x 4, USB 3.0 x 1, HDMI x 1
- Optimized Fanless Cooling Design
- Wi-Fi (Optional)
- BT 4.0 (Optional)

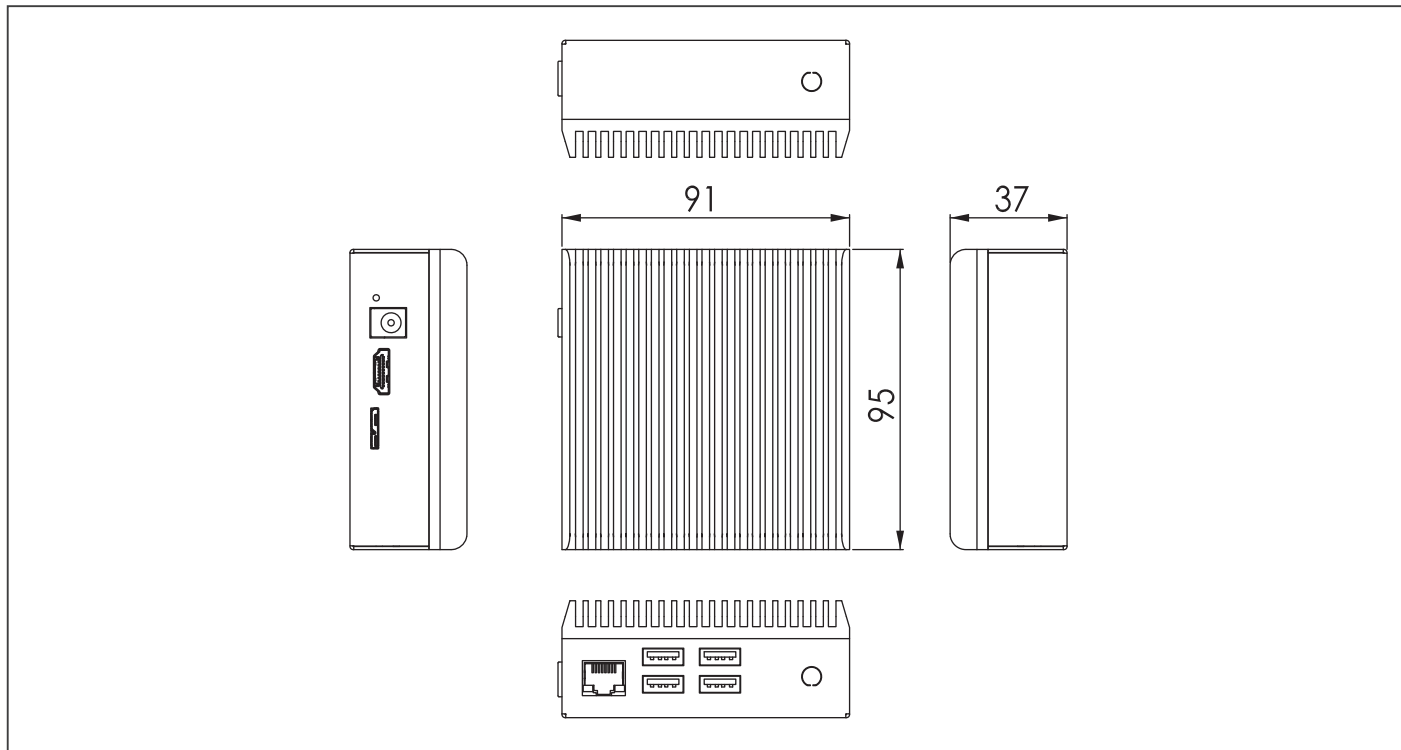


Specifications

System	
CPU	Intel® Atom™ x5-Z8350 Processor (2M Cache, 1.44 GHz up to 1.92 GHz) CPU with 64 bit architecture; Quad Core
Memory	Onboard DDR3L memory
Graphics	Intel® HD 400 Graphics ,12 EU GEN 8, up to 500MHz Support DX*11.1/12, Open GL*4.2, Open CL*1.2 OGL ES3.0, H.264, HEVC (decode), VP8
Storage	Onboard eMMC
Ethernet	Gb LAN x 1
WIFI/BT	Optional
Audio	HDMI x 1
USB	USB2.0 x 4, USB3.0 OTG x 1
Expansion Slot	—
I/O Placements	
Power	DC-in Jack x 1
USB	USB2.0 x 4, USB3.0 OTG x 1
Display Port	HDMI x 1
Ethernet	Gb LAN x 1
COM	—
Environment	
Power	5V/4A DC Only
Form Factor	3.74" x 3.58" x 1.46" (95mm x 91mm x 37mm)
Gross Weight	—
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Operating Humidity	0% ~ 90% relative humidity non-condensing
Certification	CE/FCC Class A
OS Support	Windows® 10, Linux, Android 6.0, Windows® 10 IoT core

Dimension

Unit: mm



Ordering Information

Product SKU	Description
UP-GWS01-A20-0232	UP-GWS01, w/2G memory, 32G eMMC board w/o VESA plate
UP-GWS01-A20-1232	UP-GWS01, w/2G memory, 32G eMMC board w/ VESA plate
UP-GWS01-A20-0432	UP-GWS01, w/4G memory, 32G eMMC board w/o VESA plate
UP-GWS01-A20-1432	UP-GWS01, w/4G memory, 32G eMMC board w/ VESA plate

Packing List

- UP-GWS01

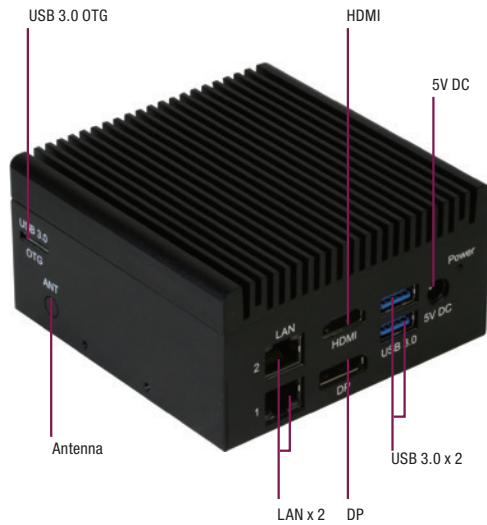
Optional Accessories

- **UP-WIFIKIT-A20-4001**
WiFi module KIT, IEEE 802.11 a/b/g/n, 2.4GHz and 5GHz, w/ Cable and Antenna
- **UP-WIFIKIT-A20-7001**
WiFi module KIT, IEEE 802.11 b/g/n, 2.4GHz, w/ Cable and Antenna
- **UP-BTKIT-A20-0001**
Bluetooth module, 2.4GHz, w/ Cable and Antenna
- **1255300203**
5V/4A Power Adapter
- **1709100802**
USB 3.0 OTG cable, Micro B to Micro B

UPS-GWS01

Tiny Gateway System with UP Squared

Front View



Rear View



Features

- Intel® Pentium® N4200/ Celeron® N3350 Processor SoC/Atom® E3950
- Onboard LPDDR4 Memory, eMMC Storage
- Gigabit LAN x 2
- HDMI x 1, DP x 1
- USB 3.0 x 3, USB 3.0 OTG x 1
- 3G/ WiFi/ BT(Optional)

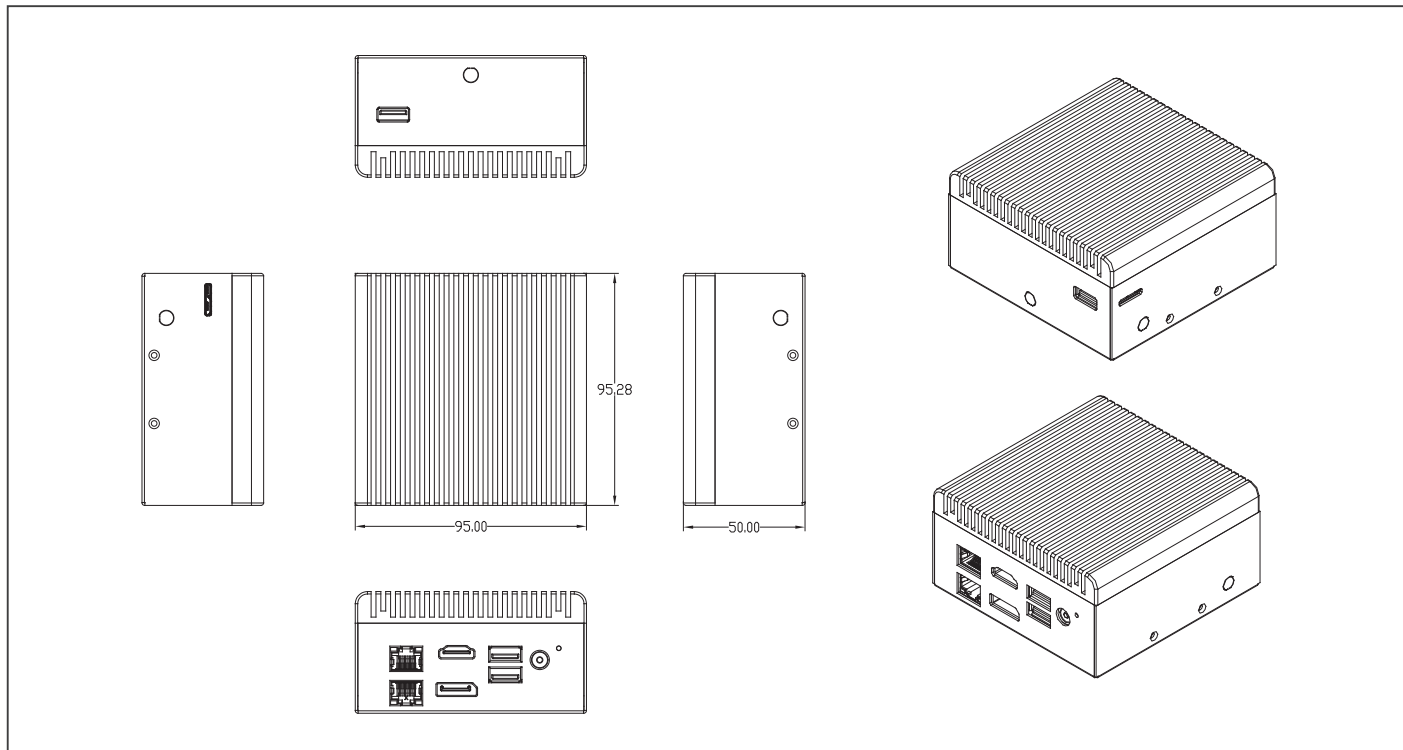


Specifications

System	
CPU	Intel® Pentium® N4200/ Celeron® N3350 Processor SoC/Atom® E3950
Memory	Onboard Single/ Dual Channel LPDDR4 memory, Max. 8GB
Graphics	Intel® Graphics, GEN 9
Storage	eMMC ver 5.0 x 1, Max. 128G
Ethernet	Realtek® 8111G x 2
WiFi/BT	—
Audio	HDMI x 1, DP x 1
USB	USB3.0 x 3
Expansion Slot	Minicard (MINI card with SIM) socket x 1
I/O Placements	
Power	DC-In Jack x 1, Power Button x 1
USB	USB3.0 x 2, USB3.0 OTG x 1/ USB3.0 x 1
Display Port	HDMI x 1, DP x 1
Ethernet	Realtek® 8111G x 2
COM	—
Environment	
Power	5V DC Only
Form Factor	3.74" x 3.74" x 1.97" (95mm x 95mm x 50mm)
Gross Weight	—
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)
Operating Humidity	0% ~ 90% relative humidity non-condensing
Certification	CE, FCC Class A, UL
OS Support	Windows® 10, Linux, Android 7.0, Windows® 10 IoT core

Dimension

Unit: mm



Ordering Information

Product SKU	Description
UPS-GWS01C2-A20-0232	UPS-GWS01, CPU N3350, w/2G memory, 32G eMMC board w/o VESA plate
UPS-GWS01C2-A20-1232	UPS-GWS01, CPU N3350, w/2G memory, 32G eMMC board w/ VESA plate
UPS-GWS01C2-A20-0432	UPS-GWS01, CPU N3350, w/4G memory, 32G eMMC board w/o VESA plate
UPS-GWS01C2-A20-1432	UPS-GWS01, CPU N3350, w/4G memory, 32G eMMC board w/ VESA plate
UPS-GWS01P4-A20-0432	UPS-GWS01, CPU N4200, w/4G memory, 32G eMMC board w/o VESA plate
UPS-GWS01P4-A20-1432	UPS-GWS01, CPU N4200, w/4G memory, 32G eMMC board w/ VESA plate
UPS-GWS01P4-A20-0864	UPS-GWS01, CPU N4200, w/8G memory, 64G eMMC board w/o VESA plate
UPS-GWS01P4-A20-1864	UPS-GWS01, CPU N4200, w/8G memory, 64G eMMC board w/ VESA plate
UPS-GWS01X7-A20-0432	UPS-GWS01, CPU E3950, w/4G memory, 32G eMMC board w/o VESA plate
UPS-GWS01X7-A20-0864	UPS-GWS01, CPU E3950, w/8G memory, 64G eMMC board w/o VESA plate

Packing List

- UPS-GWS01

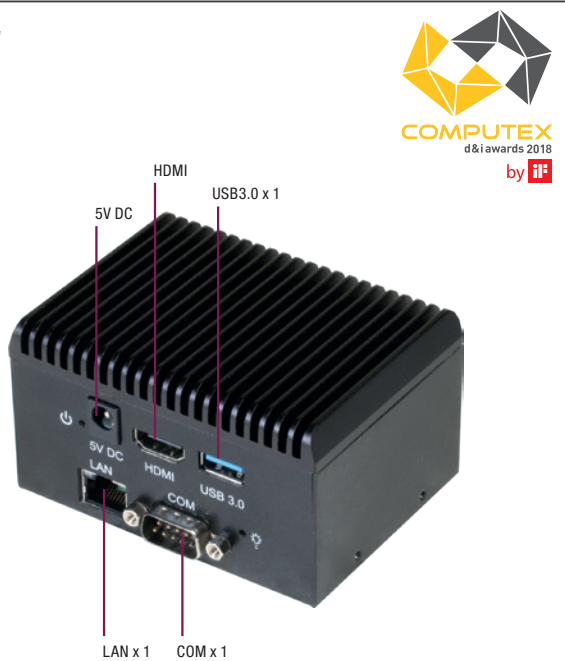
Optional Accessories

- **9741UC20G0**
Mini PCIe 3G Module Kit
- **9741UC20G1**
Mini PCIe 3G Module Kit with SIM Slot
- **1255300362**
5V/6A Power Adapter
- **1709100802**
USB 3.0 OTG cable, Micro B to Micro B

UPC-GWS01

Tiny Gateway System with UP Core

Front View



Rear View



Features

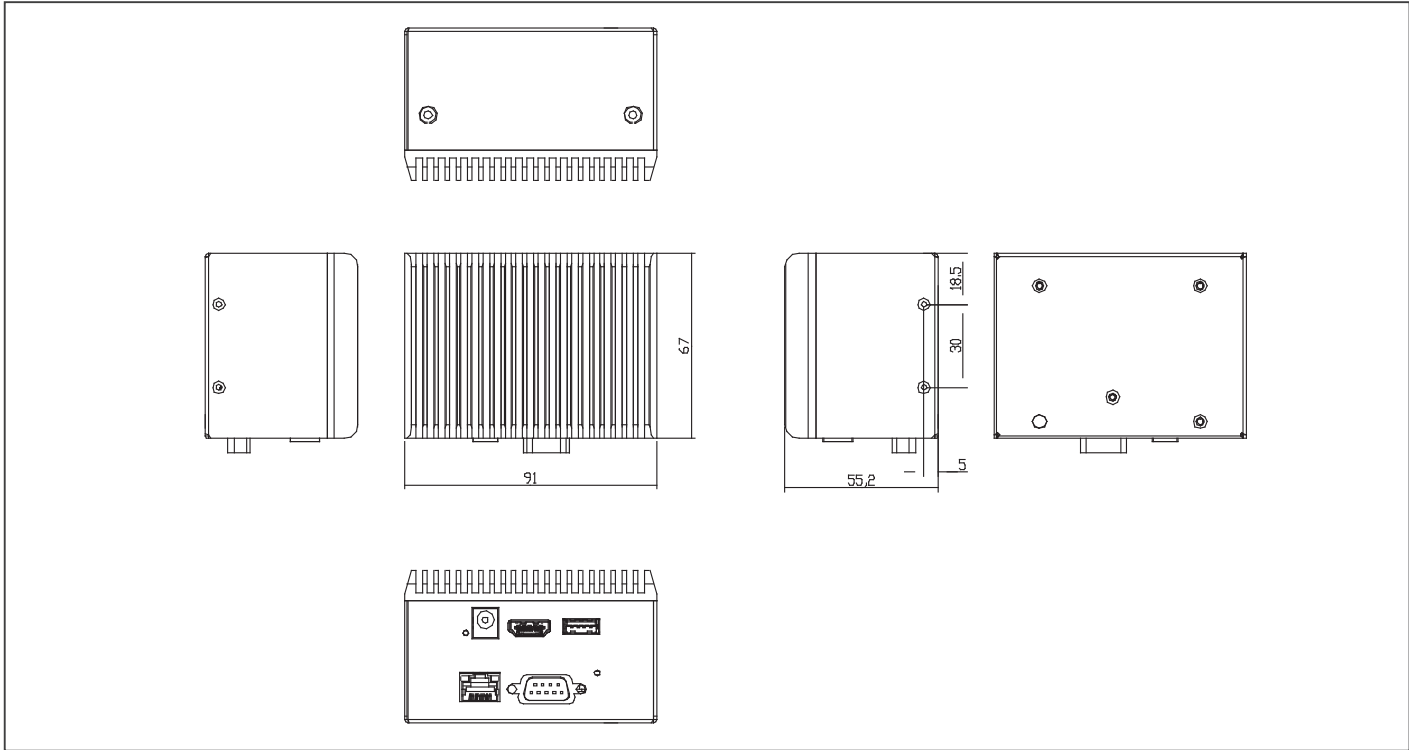
- Intel® Atom™ Processor
- Onboard DDR3L Memory, eMMC Storage
- Onboard WiFi, Bluetooth
- HDMI x 1
- USB 3.0 x 1
- COM x 1
- Gigabit LAN x 1



Specifications

System	
CPU/Chipset	Intel® Atom™ x5-Z8350 Processor
Memory	1GB/ 2GB/ 4GB onboard DDR3L-1600
Graphics	Intel® HD 400 Graphics
Storage	16GB/32GB/64GB eMMC
Ethernet	Realtek® 8111G x 1
WiFi/BT	WiFi802.11 b/g/n @2.4 GHz, Bluetooth 4.0
Audio	HDMI x 1
USB	USB 3.0 Host x 1
Expansion Slot	Minicard (MINI card with SIM) socket x 1
I/O Placements	
Power	5V DC x 1
USB	USB3.0 x 1
Display Port	HDMI x 1
Ethernet	RJ-45 x 1
COM	RS-232/422/485 x 1
Environment	
Power	5V/4A DC Only
Form Factor	3.58" x 2.63" x 2.17" (91mm x 67mm x 55.2mm)
Gross Weight	0.77 lb (0.35 kg)
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Certification	CE, FCC Class A
OS Support	Windows® 10, Linux (Ubuntu, Ubuntu, Yocto), Android 6.0, Windows® 10 IoT core

Dimension Unit: mm



Ordering Information

Product SKU	Description
UPC-GWS01-A20-0216	UPC-GWS01, w/2G memory, 16G eMMC board w/o VESA plate
UPC-GWS01-A20-0232	UPC-GWS01, w/2G memory, 32G eMMC board w/o VESA plate
UPC-GWS01-A20-0432	UPC-GWS01, w/4G memory, 32G eMMC board w/o VESA plate
UPC-GWS01-A20-0464	UPC-GWS01 w/4G memory, 64G eMMC board w/o VESA plate

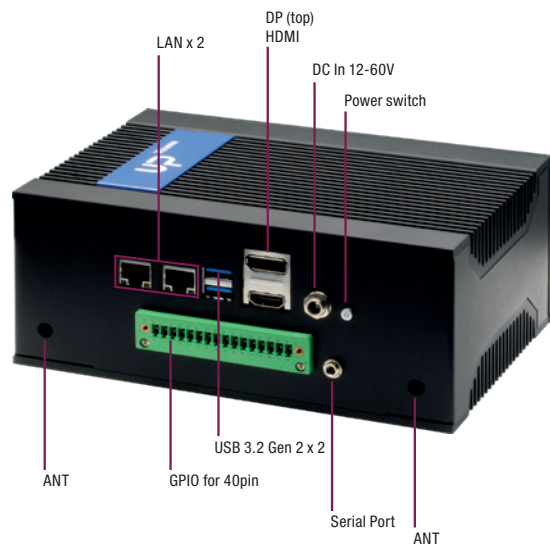
Packing List

- Antenna x 1
- UPC-GWS01

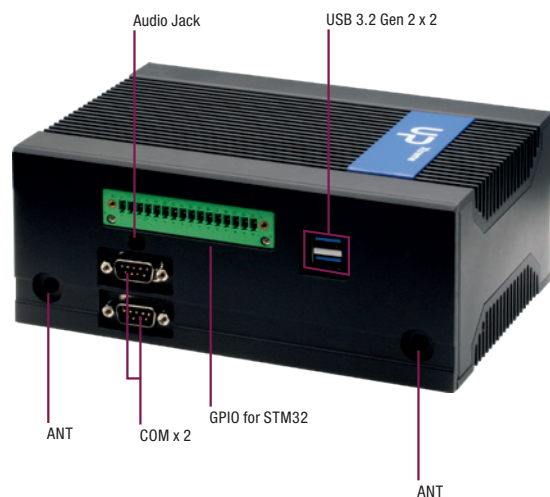
Optional Accessories

- 1255300203
5V/4A Power Adapter

Front View



Rear View



Features

- Intel® WHL-U Core™ i7/i5/i3/Celeron Processor SoC
- Onboard DDR4 memory, Max 16GB
- eMMC 64GB
- HDMI 2.0 x 1 (Support 4K at 60 Hz)
- COM ports (RS-232/422/485) x 2
- 16pin GPIO connectors (1x GPIO for SMT32, 1x GPIO for 40pin HAT)
- Audio Jack x 1 (line out + Mic)
- 12-60V DC-in
- Fanless Chassis design

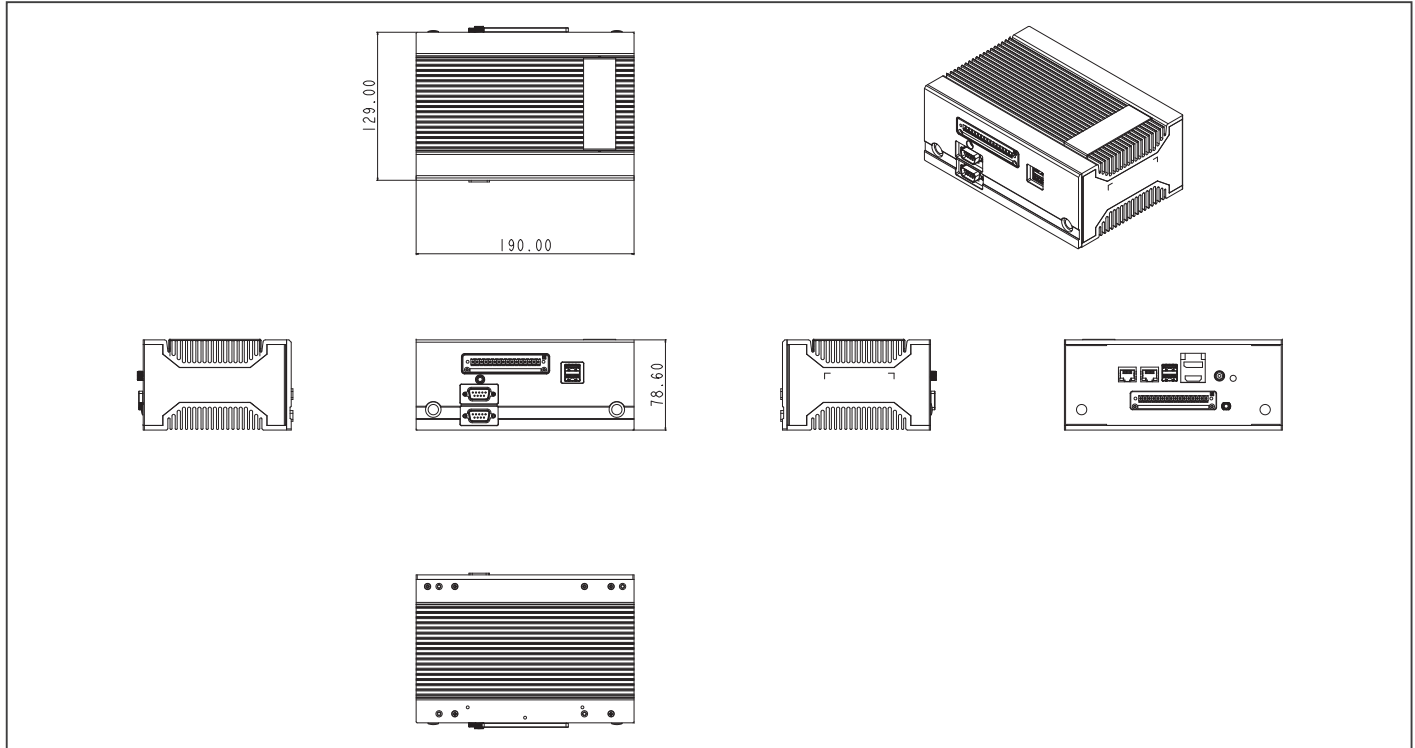


Specifications

System	
CPU	8th generation Intel® Core™ i7/i5/i3/Celeron Processor SoC
Memory	Onboard DDR4 memory, Max 16GB Single Channel: 4GB Dual Channel: 8GB, 16GB
Graphics	Intel® Graphics, GEN 9
Storage	eMMC 64GB
Ethernet	Intel® i210/i211(Default i210) x 1/ i219LM PHY x 1
WIFI/BT	Optional
Audio	Line out + MIC x 1
USB	USB 3.2 Gen 2 x 4
Expansion Slot	M.2 2230 E Key x 1 M.2 2280 B+M Key x 1 mPCIe slot x 1 100pin connector x 1 40 pin HAT x 1 SATA3 connector x 1 (support 2.5" HDD/SSD expansion)
I/O Placements	
Power	DC-in Jack x 1, Power Button x 1
USB	USB 3.2 Gen 2 STACK Connector for 2 ports (Front) x 1 USB 3.2 Gen 2 STACK Connector for 2 ports (Rear) x 1
Display Port	HDMI 2.0 x 1 (Support 4K at 60 Hz), DP 1.2 x 1, 16pin GPIO connectors (1 x GPIO for SMT32, 1 x GPIO for 40pin HAT)
Ethernet	RJ45 connector x 2
COM	RS-232/422/485 x 2
Environment	
Power	12V - 60VDC
Form Factor	7.48" x 5.12" x 3.1" (190mm x 130mm x 78.6mm)
Gross Weight	6.61lbs (3kg)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	0% ~ 90% relative humidity non-condensing
Certification	CE/FCC Class A, RoHS Compliant, REACH
OS Support	Win 10, Linux Ubuntu 18.04 with Kernel 5.0, Linux Yocto 2.7 with Kernel 4.19

Dimension

Unit: mm



Ordering Information

Part number	CPU	RAM	Storage	LAN	USB	RS-232/422/485	Power	Operation Temp.	Others
UPX-EDGEI7-A10-1664-F01	Core™ i7-8665UE	16GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	—
UPX-EDGEI5-A10-0864-F01	Core™ i5-8365UE	8GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	—
UPX-EDGEI3-A10-0864-F01	Core™ i3-8145UE	8GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	—
UPX-EDGEICR-A10-0464-F01	Celeron® 4305UE	4GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	—
UPX-EDGEI7C-A10-1664-F01	Core™ i7-8565U	16GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	—
UPX-EDGEI7-A10-1664-FX1	Core™ i7-8665UE	16GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	With foundation kit image preload, AI Core X 2280
UPX-EDGEI5-A10-0864-FX1	Core™ i5-8365UE	8GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	With foundation kit image preload, AI Core X 2280
UPX-EDGEI3-A10-0864-FX1	Core™ i3-8145UE	8GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	With foundation kit image preload, AI Core X 2280
UPX-EDGEICR-A10-0464-FX1	Celeron® 4305UE	4GB	64GB	GbE x 2	USB 3.2 Gen 2 x 4	2	12-60V	-4°F ~ 158°F (-20°C ~ 70°C)	With foundation kit image preload, AI Core X 2280

Packing List

- VESA Kit
- DIN-RAIL Kit
- SATA cable
- Screw packs
- UPX-EDGE

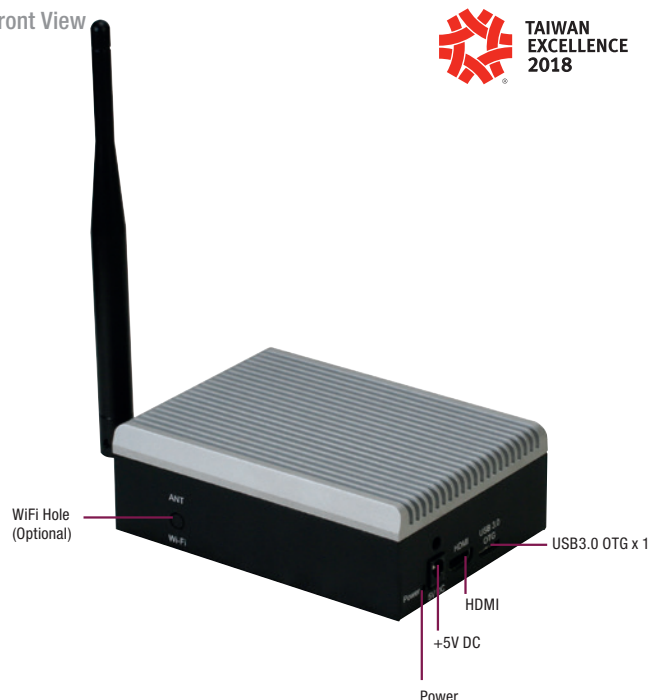
Optional Accessories

- **125530065A**
19Vdc/3.42A.65W power adapter
- **1702031830**
Power cord for USA
- **9741364A00**
Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT4.0, 2T2R, with 2 sets of cable & antenna (Enli, QCNFA364A)
- **PER-TAIX2-A20-2280**
AI Core XM 2280.N/A.M.2 2280 B+M key card. with Dual Myriad X
- **9741159H00**
(TF)Wireless LAN kit.IEEE 802.11.b/g/n.w/ BT 4.0/3.0.(AzureWave.AW-NB159H).w/ cable.&antenna (mini card)
- **9741EC25E0**
(TF)PCIe mimi card.4G LTE.module kit .for Europe.W/Cable & antenna.Quectel EC25-E

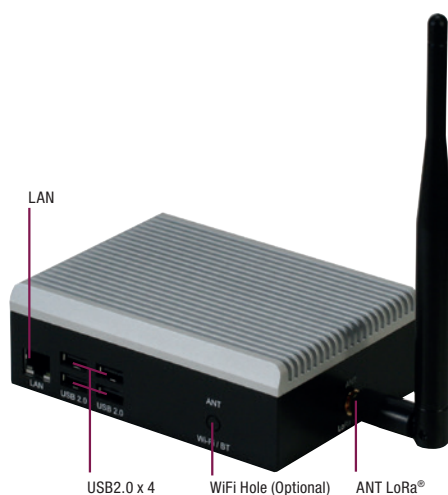
AIOT-ILRA01

LoRa® Certified Intel® Based Gateway and Network Server

Front View



Rear View



Features

- Intel® Atom™ x5-Z8350 SoC
- Onboard 2GB/4GB DDR3L Memory, 32GB/64GB eMMC Storage
- Gigabit LAN x 1, HDMI x 1
- USB 2.0 x 4, USB 3.0 OTG x 1
- LoRa® Function Supported
- Supports Frequency Band 868 MHz

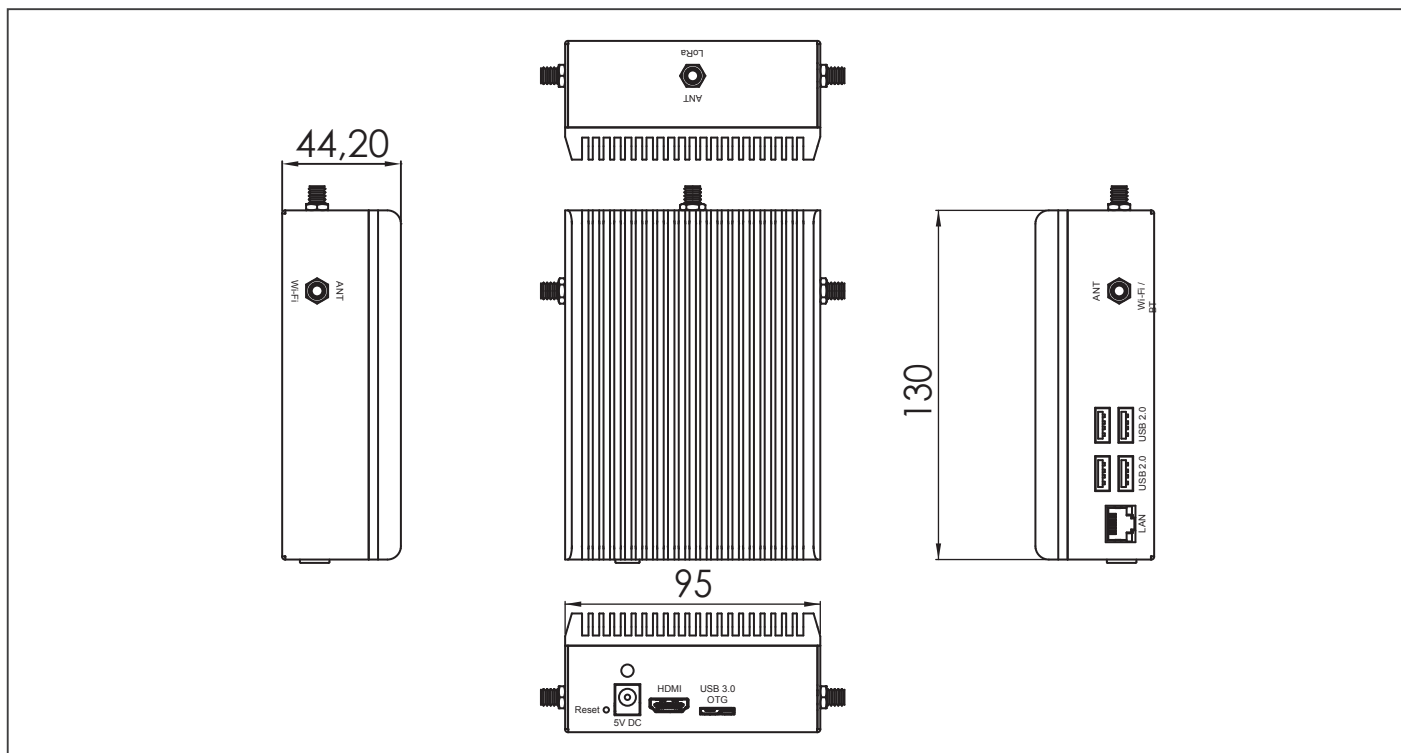


Specifications

System	
CPU	Intel® Atom™ x5-z8350 SoC
Chipset	Intel® System on Chip
Memory	Onboard 2GB/4GB DDR3L - 1600 memory
Storage	32GB/64GB eMMC on board
Display	HDMI
Ethernet	8111G x 1
USB	USB2.0 x 4, USB 3.0 OTG x 1
COM	—
Digital I/O	—
Expansion Slot	—
Indicator	—
Wi-Fi	—
Bluetooth	—
Lora	Frequency band 868MHz Sensitivity down to -138 dBm Tx/Rx front-ends x 2 RF interface optimized to 50Ω Output power level up to 20 dBm Range up to 15 km (Line of Sight)
POE	—
OS Support	Ubilinux
I/O Placements	
Front I/O	DC connector x 1 Antenna hole x 1 HDMI Connector x 1 USB 3.0 OTG x 1 Power button x 1
Rear I/O	Antenna hole x 1
Right side I/O	RJ45 Connector x 1 USB 2.0 Stack Connector x 2 Antenna hole x 1
Left side I/O	Antenna hole x 1
Power	
Power Requirement	5V DC in
Mechanical	
IP	—
Dimension	5.12" x 3.74" x 1.74" (130mm x 95mm x 44.2mm)
Mounting	VESA Mount (optional)
Gross Weight	7.8lb (3.5kg)
Net Weight	5.6lb (2.5kg)
Environment	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	0% ~ 90% relative humidity, non-condensing
Anti-Vibration	3 Grms /5 ~500Hz/Operation
Certification	CE

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Storage	LAN	USB	Display	WiFi/BT	LoRa	Mounting	PoE	Power	Operation Temp.
AIOT-ILRA01-A10-CA40232EU-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	HDMI x 1	—	Frequency band 868MHz	—	—	5V DC In	32°F ~ 122°F (0°C ~ 50°C)
AIOT-ILRA01-A10-CA41232EU-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	HDMI x 1	—	Frequency band 868MHz	VESA Mount	—	5V DC In	32°F ~ 122°F (0°C ~ 50°C)
AIOT-ILRA01-A10-CA40464EU-A11	Intel® Atom™ x5-z8350 SoC	4GB	64GB	1	USB2.0 x 4 USB 3.0 OTG x 1	HDMI x 1	—	Frequency band 868MHz	—	—	5V DC In	32°F ~ 122°F (0°C ~ 50°C)
AIOT-ILRA01-A10-CA41464EU-A11	Intel® Atom™ x5-z8350 SoC	4GB	64GB	1	USB2.0 x 4 USB 3.0 OTG x 1	HDMI x 1	—	Frequency band 868MHz	VESA Mount	—	5V DC In	32°F ~ 122°F (0°C ~ 50°C)

Packing List

- LoRa® Antenna
- AIOT-ILRA01

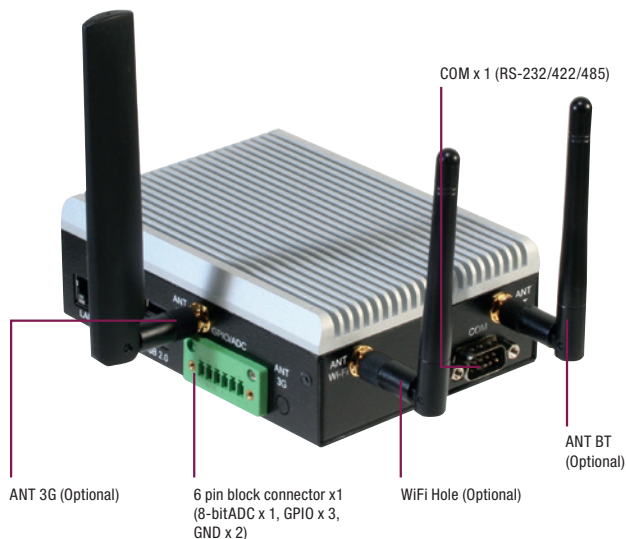
Optional Accessories

- 1255300203
Power Adapter, AC/DC, 100-240VAC, 20W, 5V DC/4A

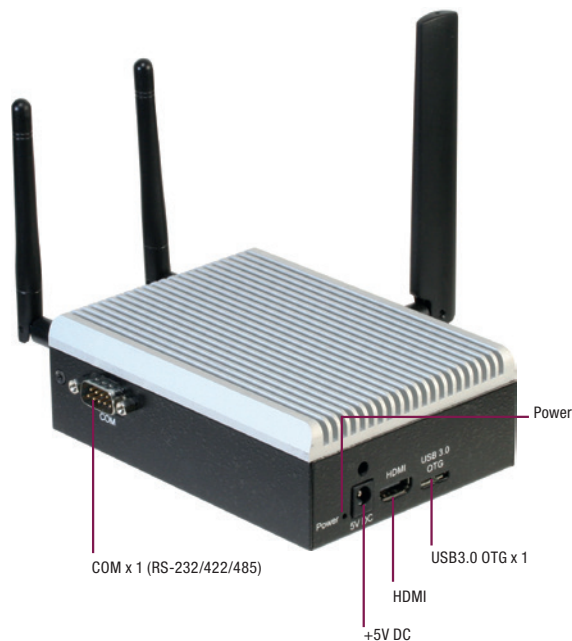
AIOT-IGWS01

Industrial Automation IoT Gateway

Front View



Rear View



Features

- Intel® Atom™ x5-Z8350 SoC
- Onboard 2GB DDR3L Memory, 32GB eMMC Storage
- Gigabit LAN x 1, HDMI x 1
- USB 2.0 x 4, USB 3.0 OTG x 1, COM x 2 (RS-232/422/485 x 2)
- Optional Wi-Fi, Bluetooth, and 3G or 4G LTE for Connectivity

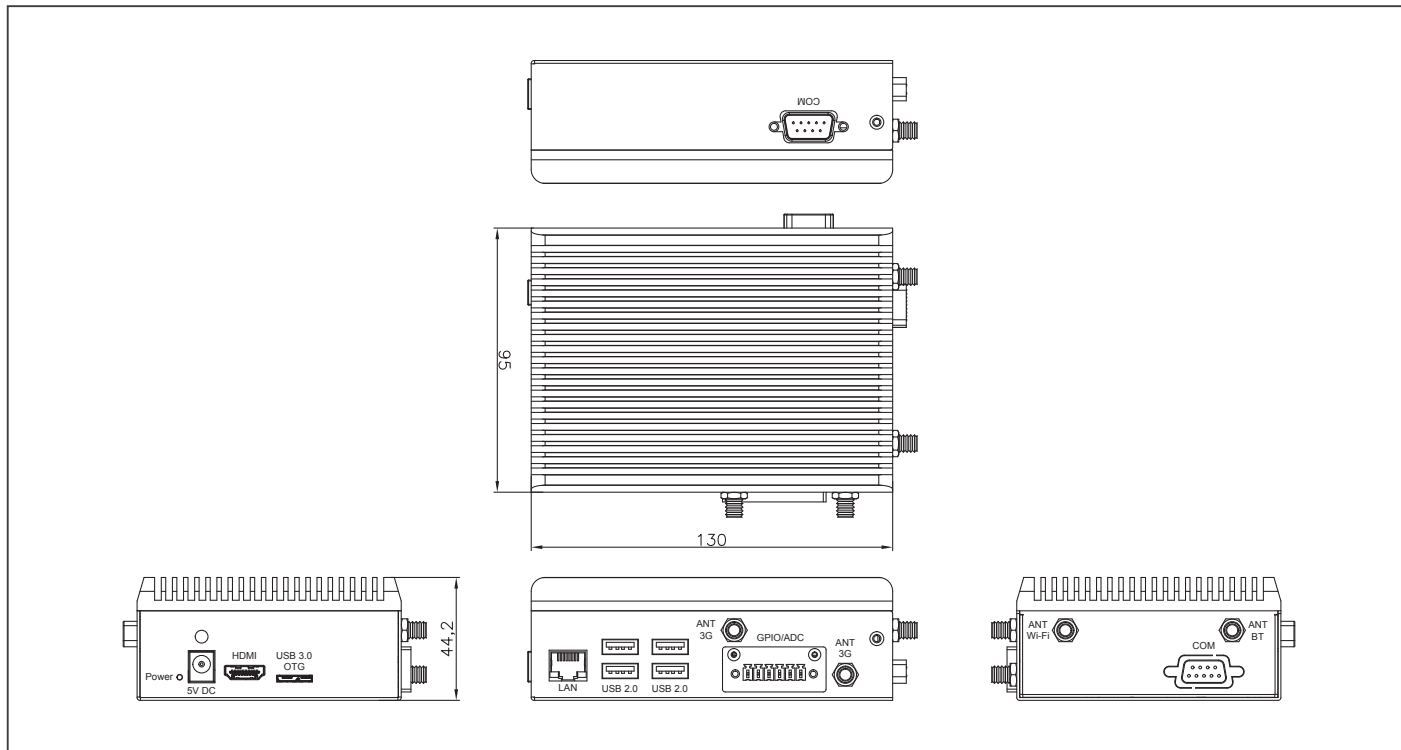


Specifications

System	
CPU	Intel® Atom™ x5-z8350 SoC
Chipset	Intel® System on Chip
Memory	Onboard 2GB DDR3L-1600 memory
Storage	32GB eMMC on board
Display	HDMI
Ethernet	8111G x 1
USB	USB 2.0 x 4 USB 3.0 OTG x 1
COM	RS-232/422/485 x 2
Digital I/O	6-pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)
Expansion Slot	USB interface for WiFi Module x 1 (IEEE 802.11a/b/g/n/ac) USB interface for Bluetooth module x 1 (Bluetooth 4.0) Mini PCIe slot for 3G or 4G LTE module x 1 (USB interface) Micro SIM Socket x 1
Indicator	—
Wi-Fi	IEEE 802.11 a/b/g/n/ac (Optional)
Bluetooth	BT4.0 (Optional)
Lora	—
POE	—
OS Support	Microsoft Windows 10 IOT, Ubuntu 16.04, Android 6.0
I/O Placements	
Front I/O	DC connector x 1 Antenna hole x 1 HDMI Connector x 1 USB 3.0 OTG x 1 Power button x 1
Rear I/O	COM x 1 (RS-232/422/485 x 1) Antenna hole x 2
Right Side I/O	RJ45 Connector x 1 USB 2.0 Stack Connector x 2 Antenna hole x 2 6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)
Left Side I/O	COM x 1 (RS-232/422/485 x 1)
Power	
Power Requirement	5V DC in
Mechanical	
IP	—
Dimension	5.12" x 3.74" x 1.74" (130mm x 95mm x 44.2mm)
Mounting	VESA mount, DinRail (Optional)
Gross Weight	7.8lb (3.5kg)
Net Weight	5.6lb (2.5kg)
Environment	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	0% ~ 90% relative humidity, non-condensing
Anti-Vibration	3 Grms /5 ~500Hz/Operation
Certification	CE, FCC Class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Storage	LAN	USB	COM	Digital I/O	Display	WiFi/BT	LoRa	Mounting	PoE	Power	Operation Temp.
AIOT-IGWS01-A11-CA40232-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	RS-232 x 2	6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)	HDMI x 1	—	—	—	—	5V DC In	32°F ~ 122°F 0°C ~ 50°C
AIOT-IGWS01-A11-CA41232-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	RS-232 x 2	6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)	HDMI x 1	—	—	VESA Mount	—	5V DC In	32°F ~ 122°F 0°C ~ 50°C
AIOT-IGWS01-A13-CA40232-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	RS-485 x 2	6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)	HDMI x 1	—	—	—	—	5V DC In	32°F ~ 122°F 0°C ~ 50°C
AIOT-IGWS01-A13-CA41232-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	RS-485 x 2	6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)	HDMI x 1	—	—	VESA Mount	—	5V DC In	32°F ~ 122°F 0°C ~ 50°C
AIOT-IGWS01-A12-CA40232-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	RS-422 x 2	6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)	HDMI x 1	—	—	—	—	5V DC In	32°F ~ 122°F 0°C ~ 50°C
AIOT-IGWS01-A12-CA41232-A11	Intel® Atom™ x5-z8350 SoC	2GB	32GB	1	USB2.0 x 4 USB 3.0 OTG x 1	RS-422 x 2	6 pin block connector x 1 (8-bit ADC x 1, GPIO x 3, GND x 2)	HDMI x 1	—	—	VESA Mount	—	5V DC In	32°F ~ 122°F 0°C ~ 50°C

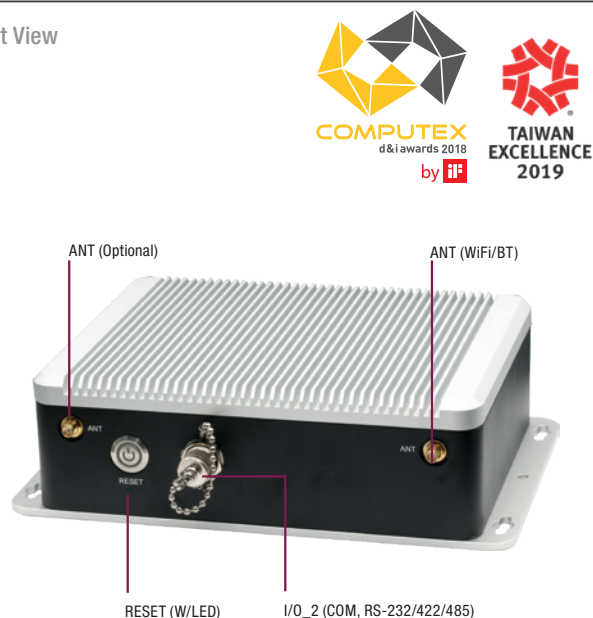
Packing List

- AIOT-IGWS01

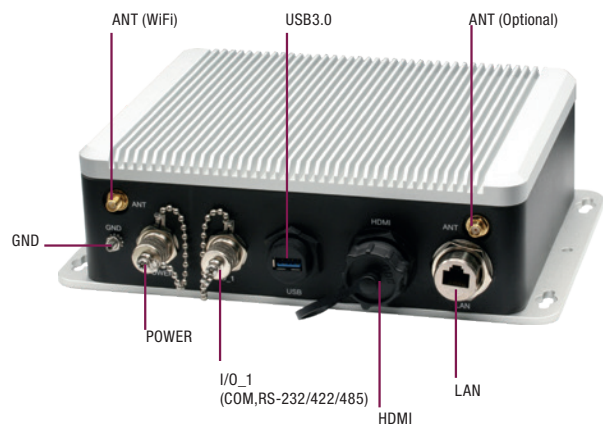
Optional Accessories

- **1255300203**
Power Adapter, AC/DC, 100-240VAC, 20W, 5V DC/4A
- **UP-BTKIT-A20-0001**
BT Kit with Bluetooth Module, A01
- **UP-WIFIMD-A20-5001**
WiFi Kit with 5M02 Module, A01
- **9741911300 (For Ubuntu 16.04, kernel version : 4.10)**
Wireless LAN Kit.802.11 a/b/g/n+BT 4.0 + Zigbee.(Redpine RS9113).W/cable & antenna
- **9741UC20G0**
3G Module Kit with UC20-G
- **9741EC25A0**
4G LTE Module kit with EC25-A for AT&T
- **9741EC25V0**
4G LTE Module Kit with EC25-V for Verizon
- **9741EC25E0**
4G LTE Module Kit with EC25-E for Europe & Asia

Front View



Rear View



Features

- IP68 Compliance Gateway System
- Intel® Atom™ E3940 Processor/Celeron® N3350 Processor
- Onboard 4GB LPDDR4 Memory
- Onboard 32 GB eMMC
- Gigabit LAN x 1, HDMI x 1
- USB3.0 x 1, RS-232 x 2
- Wi-Fi/Bluetooth Function
- Optional LORA Function, 3G, 4G LTE

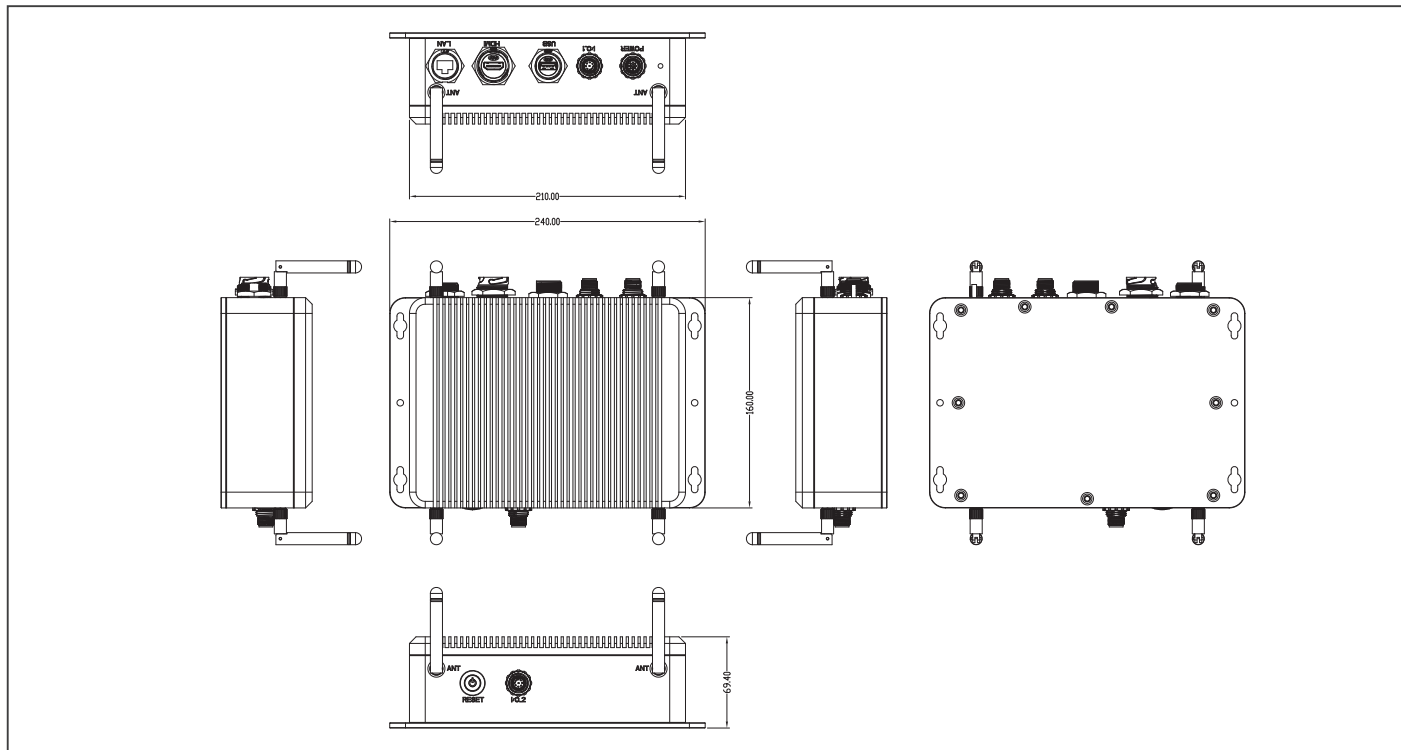


Specifications

System	
CPU	Intel® Atom™ E3940 Processor Intel® Celeron® N3350 Processor
Chipset	Intel® System on Chip
Memory	Onboard 4GB/ 2GB LPDDR4 memory
Storage	32GB eMMC onboard
Display	HDMI
Ethernet	Standard: Realtek® 8111G x 1 Wide temperature: Intel® i211 x 1
USB	USB 3.0 x 1
COM	RS-232/422/485 x 2
Digital I/O	—
Expansion Slot	Mini PCIe card x 1 SIM card x 1
Indicator	—
Wi-Fi	801.11ac
Bluetooth	BT4.0
Lora	868/915 MHz (Optional)
PoE	IEEE802.3 AT Standard, Max 25W Power Supply
OS Support	Windows® 10 (full), Windows® IoT Core, Linux ubilinux, Ubuntu, Yocto
I/O Placements	
Front I/O	M12 Connector x 1 (RS-232) Reset button x 1 GND Screw x 1 Antenna connector x 1 Antenna x 1
Rear I/O	RJ45 Connector x 1 HDMI Connector x 1 USB 3.0 Connector x 1 M12 Connector x 1 (RS-232) Antenna connector x 1 Antenna x 1
Right Side I/O	—
Left Side I/O	—
Power	
Power Requirement	5V DC in
Mechanical	
IP	IP68
Dimension	9.43" x 6.28" x 2.73" (239.4 mm x 159.4 mm x 69.4 mm)
Mounting	Wallmount
Gross Weight	7.8 lb (3.5 kg)
Net Weight	5.6 lb (2.5 kg)
Environment	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C) (E3940) 32°F ~ 122°F (0°C ~ 50°C) (N3350)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	3 Grms /5 ~500Hz/Operation
Certification	CE, FCC Class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Storage	LAN	USB	COM	Digital I/O	Display	WiFi/BT	LoRa	Mounting	PoE	Power	Operation Temp.
AIOT-IP6801-A11-AP40432W	Intel® Atom™ E3940 Processor	4GB	32GB	1	3.0 x 1	RS-232 x 2	—	HDMI x 1	Wi-Fi 801.11ac+BT4.0	—	Wallmount	—	5V DC In	-4°F ~ 158°F(-20°C ~ 70°C)
AIOT-IP6801-A12-AP40432W	Intel® Atom™ E3940 Processor	4GB	32GB	1	3.0 x 1	RS-422 x 2	—	HDMI x 1	Wi-Fi 801.11ac+BT4.0	—	Wallmount	—	5V DC In	-4°F ~ 158°F(-20°C ~ 70°C)
AIOT-IP6801-A13-AP40432W	Intel® Atom™ E3940 Processor	4GB	32GB	1	3.0 x 1	RS-485 x 2	—	HDMI x 1	Wi-Fi 801.11ac+BT4.0	—	Wallmount	—	5V DC In	-4°F ~ 158°F(-20°C ~ 70°C)

Packing List

- Antenna x 2
- AIOT-IP6801

Optional Accessories

- **1255300362**
5V/6A Power Adapter
- **1702020910**
Power cord for EU
- **1702020911**
Power cord for US
- **1702020912**
Power cord for Japan
- **1702020913**
Power cord for China
- **170204100E**
Waterproof Power Cable, M12 to DC PLUG, 100cm
- **1700091002**
Waterproof COM Cable, D-SUB to M12, 100cm
- **1709081000**
Waterproof RJ45 Cable, 100cm
- **1709191000**
Waterproof HDMI Cable, Male to Male, 100cm

Front View



Rear View



Features

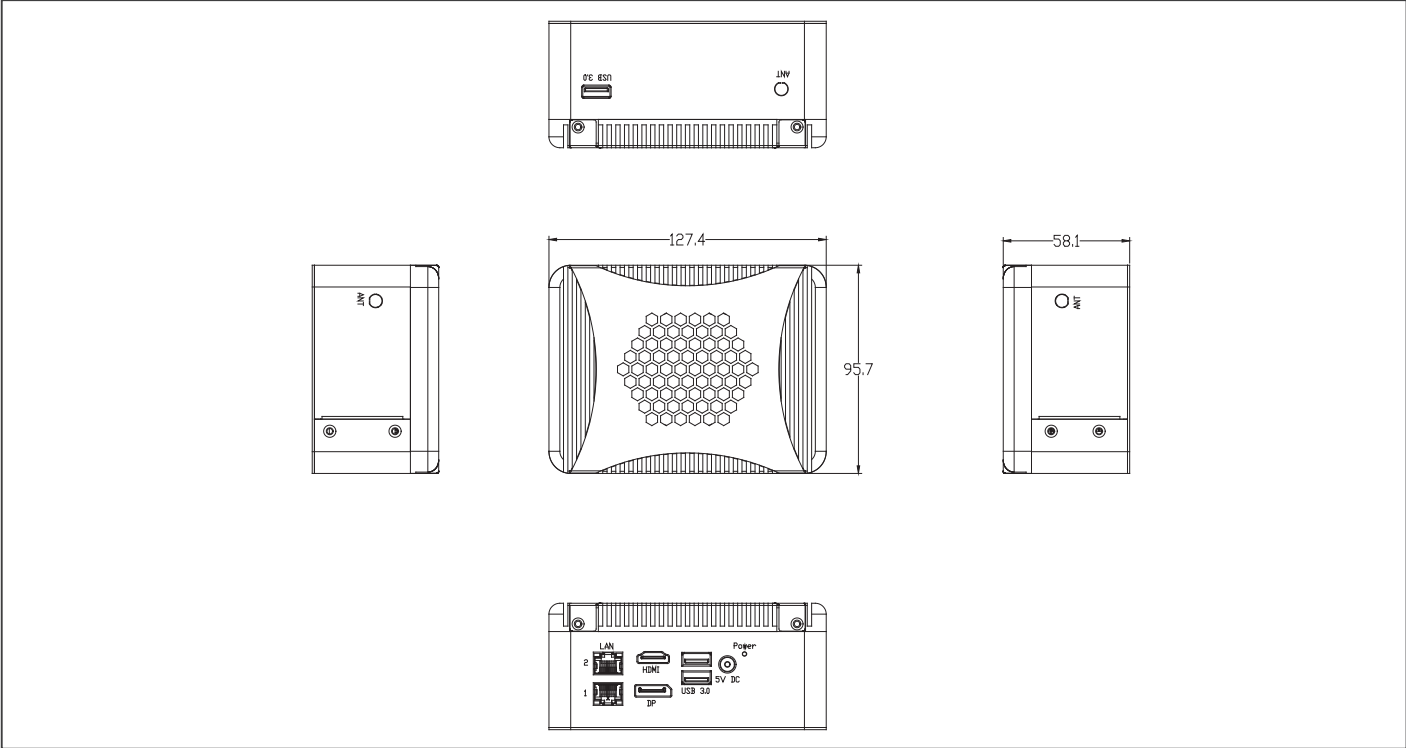
- Intel® Apollo Lake Pentium® N4200 Processor
- Onboard 8G memory, 64G eMMC storage
- Intel® Myriad™ X module
- LAN/USB/HDMI/DP
- Support 2nd storage HDD up to 1TB
- Optional Wi-Fi / Bluetooth



Specifications

System	
CPU	Intel® Pentium® N4200 Processor
Chipset	Intel® System on Chip
Memory	Onboard 8GB LPDDR4 memory
Storage	64GB eMMC on board 500GB HDD x 1 (Optional)
Display	HDMI x 1 DP x 1
Ethernet	Realtek® 8111G x 2
USB	USB 3.0 x 3
COM	—
Digital I/O	—
Expansion Slot	AI core X mini card module x 1 M.2 2230 E-Key x 1
Indicator	—
Wi-Fi	801.11ac (Optional)
Bluetooth	BT4.0 (Optional)
Lora	—
POE	—
OS Support	Windows® 10, Linux Ubuntu, OpenVino
I/O Placements	
Front I/O	RJ45 Connector x 2 Power button x 1 HDMI x 1 DP x 1 USB3.0 x 2 Power input x 1 Power button x 1
Rear I/O	USB 3.0 x 1 Antenna connector x 1 (Optional)
Right side I/O	Antenna connector x 1 (Optional)
Left side I/O	Antenna connector x 1 (Optional)
Power	
Power Requirement	5V DC in
Mechanical	
IP	—
Dimension	4.96" x 3.74" x 2.28" (126 mm x 95 mm x 58 mm)
Mounting	VESA Mount
Gross Weight	2.4lb (1.1 kg)
Net Weight	1.5lb (0.7 kg)
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – eMMC 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE, FCC Class A

Dimension Unit: mm



Ordering Information

Part Number	CPU	RAM	Storage	LAN	USB	Display	WiFi/BT	LoRa	Mounting	PoE	Power	Operation Temp.
AIOT-AIVD01-A10-AP40864	Intel® Pentium® N4200 Processor	8GB	64GB	—	USB3.0 x 3	HDMI x 1 DP x 1	—	—	—	—	5V DC In	32°F ~ 140°F (0°C ~ 60°C)

Packing List

- AIOT-AIVD

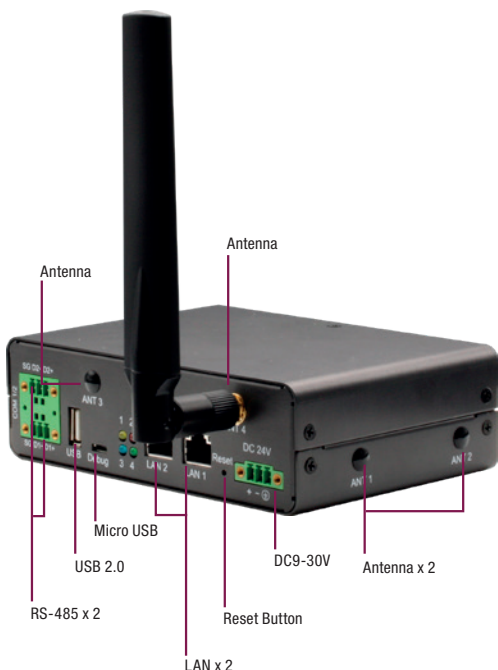
Optional Accessories

- 1255300362
5V/6A Power Adapter
- 1702020910
Power cord for EU
- 1702020911
Power cord for US
- 1702020912
Power cord for Japan
- 1702020913
Power cord for China

SRG-3352

Standard IoT Gateway System With Onboard ARM Cortex-A8 800 MHz RISC Processor

Front View



Rear View



Features

- ARM Cortex-A8 800 MHz RISC Processor
- Onboard DDR3L 1 GB
- eMMC 8G
- Built-in Micro SD Card Slot x 1
- 3G/4G LTE mini PCIe connector x 1
- NB-IoT connector x 1
- SIM card socket x 1
- Gigabit Ethernet RJ-45 x 2 LAN port
- USB2.0 x 2
- RS-485 x 2
- 4 LED lights controlled through GPIO
- Real time clock x 1
- DC9-30V
- Option for wall mounting or DIN rail mounting
- Antenna x 2 (optional)
- VGA x 1 (optional)

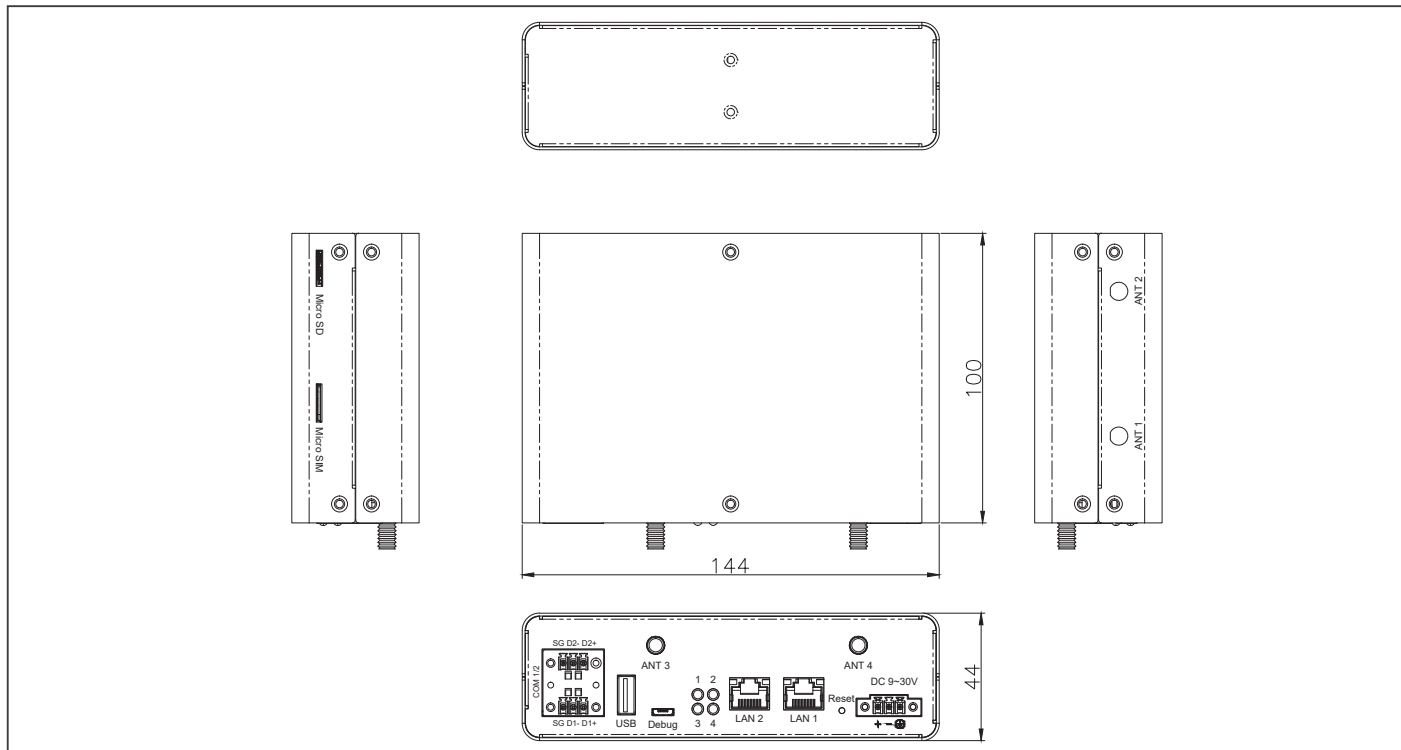


Specifications

System	
Processor	ARM Cortex-A8 800 MHz RISC Processor
System Memory	Onboard DDR3L 1GB
RTC	Serial real time clock x 1
Expansion Interface	3G/4G LTE mini PCIe connector; NB-IoT connector; SIM card socket x 1
Battery	3V CR2032 Lithium battery for RTC
Power Requirement	DC9-30V
Power Consumption	2.28 W
Dimension	5.67" x 3.94" x 1.73"(144 x 100 x 44mm)
Gross Weight	512 g
Operation Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	10% ~ 95% relative humidity, non-condensing
MTBF (Hours)	855,890
Wireless	—
I/O	
Storage	eMMC 8G; Micro SD slot
Serial Port	RS-485 x 2
LAN	Gigabit Ethernet, RJ-45 x 2
USB	USB 2.0 x 2
GPIO	4 LED control
Other Interface	—

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Thermal	COM	Storage	LAN	USB	Expansion slot	Power	Operation Temp.	Others
SRG-3352-A10-A001	ARM Cortex-A8 800MHz	Onboard DDR3L 1G	Fanless	RS-485 (D-sub)	eMMC 8GB, MicroSD x1	GbE x 2	USB 2.0 x 1, Micro USB x 1	Mini PCIe slot x 1, SIM card socket x 1	DC9-30V	0°C ~ 60°C @ 0.5 m/s airflow	VGA x 1 (optional), 3G/4G LTE module (optional)
SRG-3352-A10-A002	ARM Cortex-A8 800MHz	Onboard DDR3L 1G	Fanless	RS-485 (phoenix)	eMMC 8GB, MicroSD x1	GbE x 2	USB 2.0 x 1, Micro USB x 1	Mini PCIe slot x 1, SIM card socket x 1	DC9-30V	0°C ~ 60°C @ 0.5 m/s airflow	VGA x 1 (optional), 3G/4G LTE module (optional)

Packing List

- SRG-3352

Installation Scenario



DIN-Rail Mount Illustration

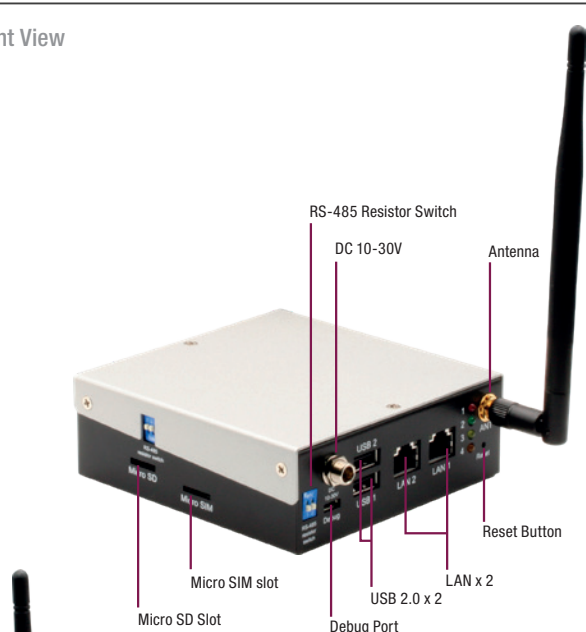


Wall Mount Illustration

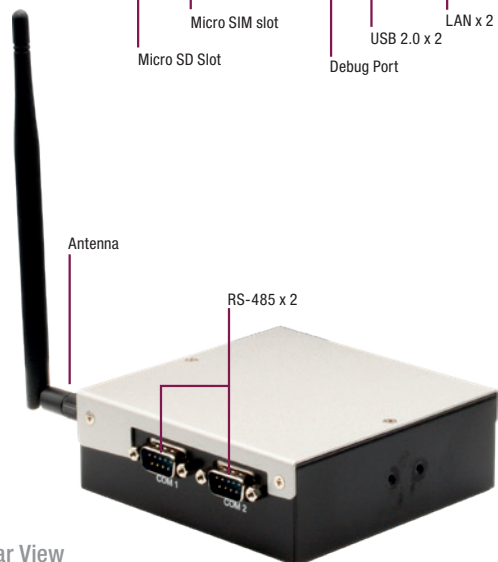
Optional Accessories

- **1255300368**
Power Adapter. AC/DC. 100-240VAC. 12VDC/3A. 36W. AOEM. ADS036T-W120300. (phoenix connector)
- **9741EC25E0**
PCIe mini card.4G LTE module kit with cable & Antenna, EC25-E
- **9741EG25G0**
PCIe mimi card. 4G LTE. module kit. Global Band W/SIM holder. W/Cable & antenna. Quectel. EG25-G
- **9741236A00**
Mini card WiFi Kit.802.11ac/a/b/g/n,BT4.2.USB Signal.W/cable&antenna
- **9751335201**
Din rail kit. 44 x 48.3mm
- **9751335202**
Wall mount kit. 100 x 35mm

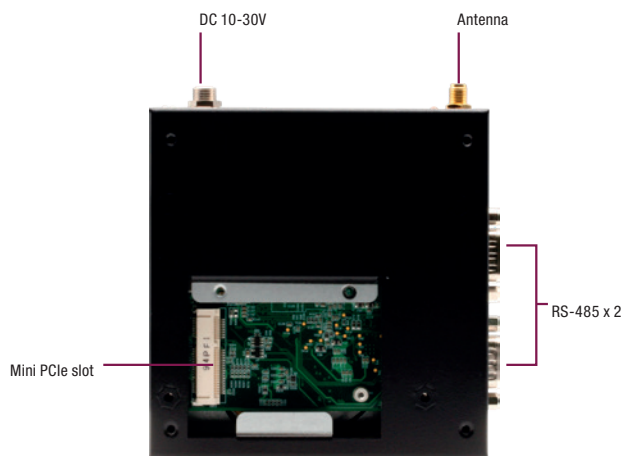
Front View



Rear View



Bottom View



Features

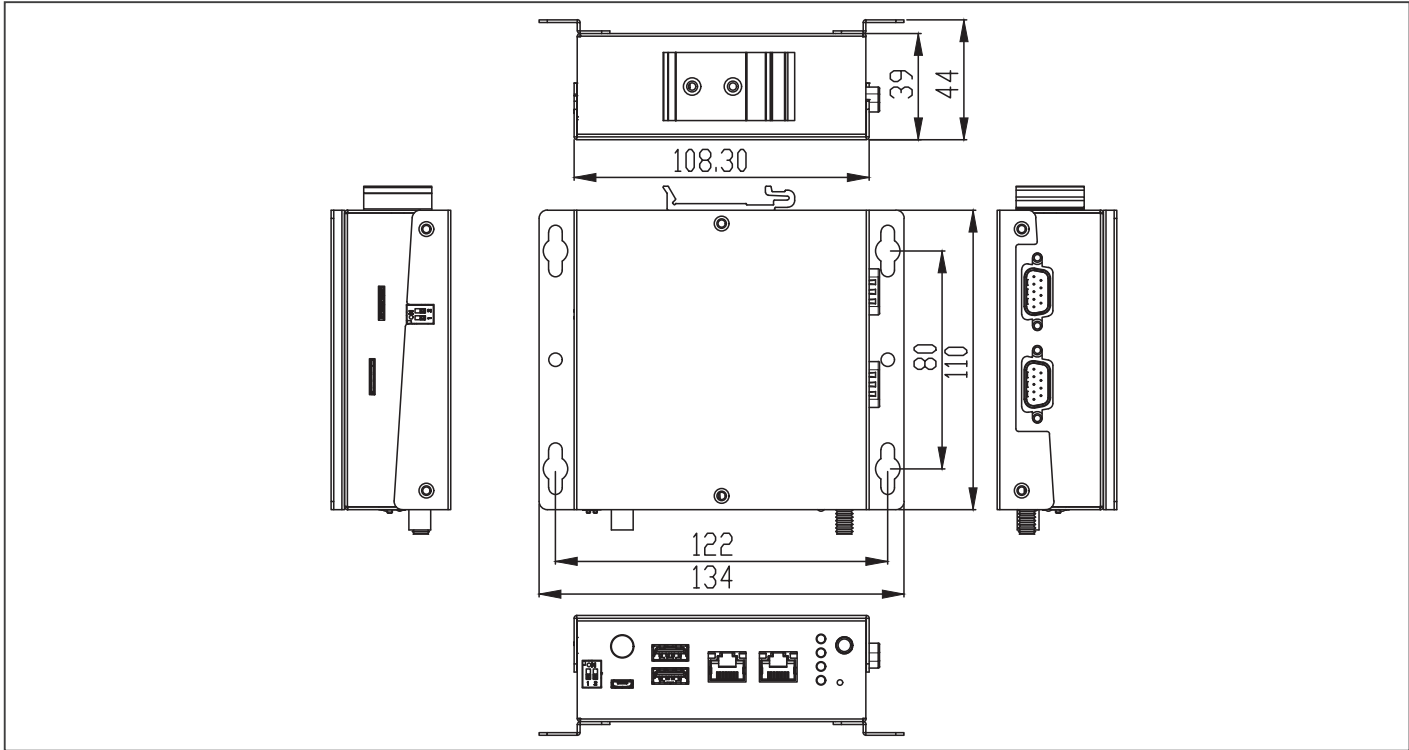
- ARM Cortex-A8 800 MHz RISC Processor
- Onboard DDR3L 1 GB
- eMMC 8G
- Built-in Micro SD Card Slot x 1
- 3G/4G LTE mini PCIe connector x 1
- NB-IoT connector x 1
- SIM card socket x 1
- Gigabit Ethernet RJ-45 x 2 LAN port
- USB2.0 x 2
- RS-485 x 2
- Micro USB x 1
- On board WiFi/Bluetooth Module x 1
- 4 LED lights controlled through GPIO
- Real time clock x 1
- DC10-30V
- Board to Board connector
- RS-485 termination resistor switch



Specifications

System	
Processor	ARM Cortex-A8 800 MHz RISC Processor
System Memory	Onboard DDR3L 1GB
RTC	Serial real time clock x 1
Expansion Interface	3G/4G LTE mini PCIe connector; NB-IoT connector; SIM card socket x 1
Battery	3V CR2032 Lithium battery for RTC
Power Requirement	DC10-30V
Power Consumption	1.8 W
Dimension	5.67" x 3.94" x 1.73"(109 x 110 x 39 mm)
Gross Weight	430 g
Operation Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	10% ~ 95% relative humidity, non-condensing
MTBF (Hours)	855,590
Wireless	On board WiFi/Bluetooth Module x 1
I/O	
Storage	eMMC 8G; Micro SD slot
Serial Port	RS-485 x 2
LAN	Gigabit Ethernet, RJ-45 x 2
USB	USB 2.0 x 2
GPIO	4 LED control
Other Interface	—

Dimension Unit: mm



Ordering Information

Part Number	CPU	Memory	Thermal	COM	Storage	LAN	USB	Expansion slot	Power	Operation Temp.	Others
SRG-3352C-A10-A001	ARM Cortex-A8 800MHz	Onboard DDR3L 1G	Fanless	RS-485 x 2	eMMC 8GB, MicroSD x1	GbE x 2	USB 2.0 x 2 Micro USB x 1	Mini PCIe slot x 1, SIM card socket x 1	DC 10-30V	0°C ~ 60°C @ 0.5 m/s airflow	3G/4G LTE module (optional)

Packing List

- SRG-3352C

Optional Accessories

- 1255300366
Power Adapter. AC/DC. 100-240VAC. 12VDC/3A.36W.
- 9741EC25E0
PCIe mini card.4G LTE module kit with cable & Antenna, EC25-E
- 9741EG25G0
PCIe mini card. 4G LTE. module kit. Global Band W/SIM holder. W/Cable & antenna. Quectel. EG25-G
- TBD
Din rail kit. 49 x 25mm
- TBD
Wall mount kit. 110 x 26mm

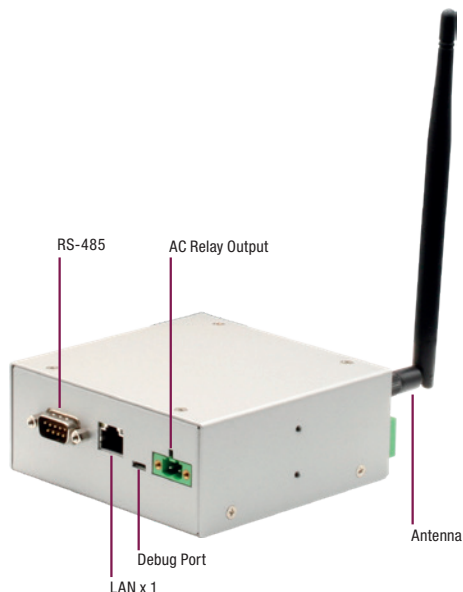
Installation Scenario



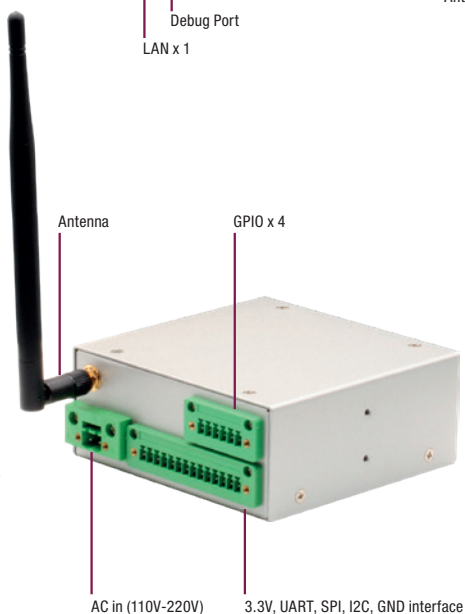
DIN-Rail Mount Illustration

Wall Mount Illustration

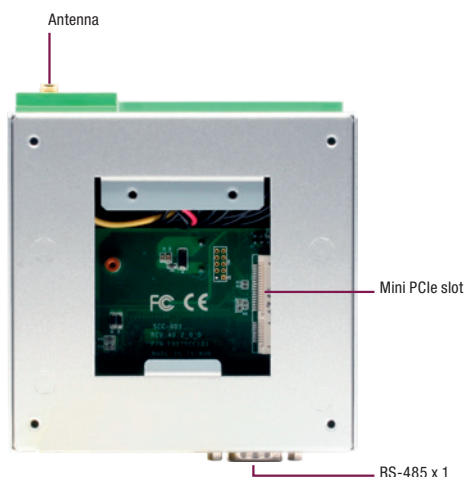
Front View



Rear View



Bottom View



Features

- ARM-Cortex M4 MCU + FPU
- RS-485 x 1
- 10/100 Mb/s Ethernet, RJ-45 x 1 LAN port
- Micro USB x 1
- AC Relay output
- AC in (110V-220V)
- GPIO x 4
- Supports UART, SPI, I2C interface
- Mini PCIe slot x 1

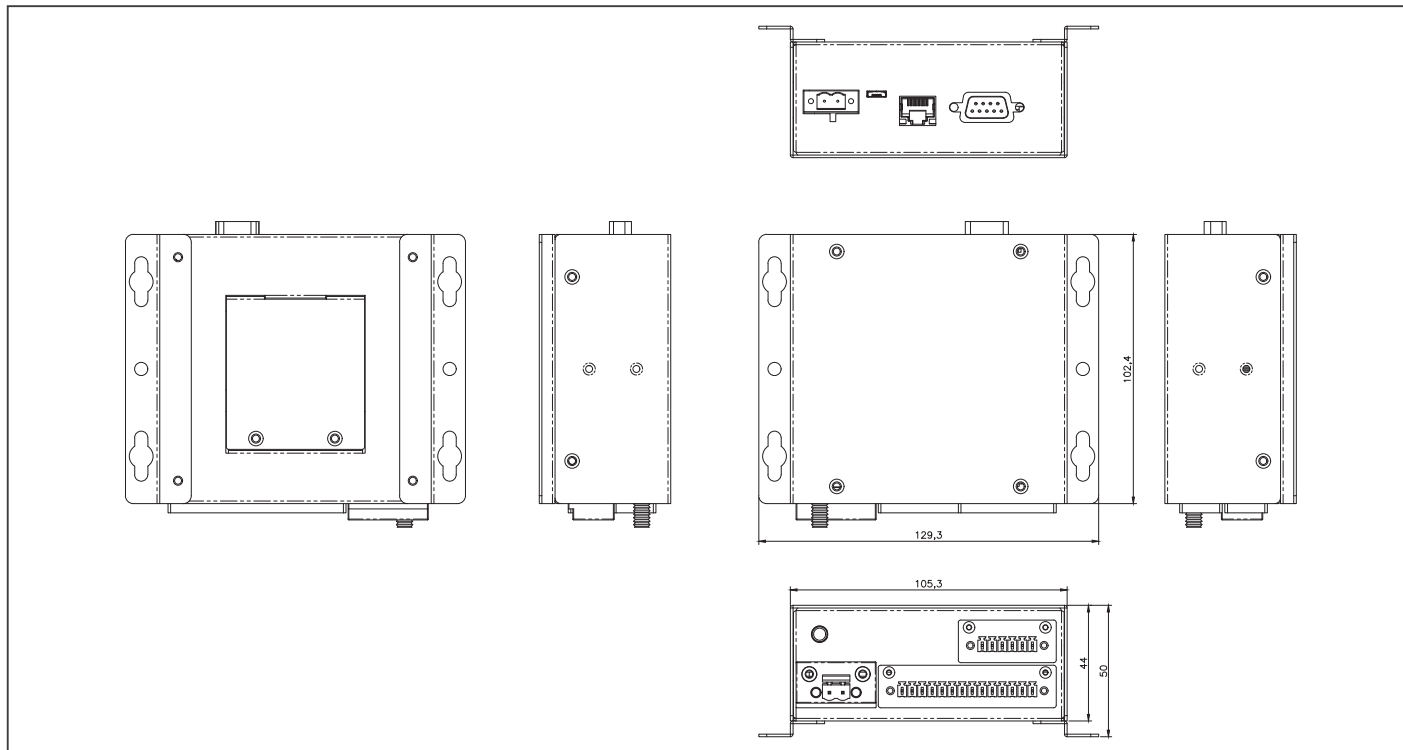


Specifications

System	
Processor	ARM-Cortex M4 MCU + FPU
System Memory	—
RTC	Serial real time clock x 1
Expansion Interface	3G/4G LTE mini PCIe connector
Battery	—
Power Requirement	AC 110-220V
Power Consumption	—
Dimension	59.05" x 49.21" x 17.32"(150 x 125 x 44 mm)
Gross Weight	480 g
Operation Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	10% ~ 95% relative humidity, non-condensing
MTBF (Hours)	1,299,248
Wireless	Supports 4G/ NB-IoT/ Wifi via Mini PCIe slot
I/O	
Storage	—
Serial Port	RS-485 x 1
LAN	10/100 Mb/s Ethernet, RJ-45 x 1
USB	micro USB debug x 1
GPIO	GPIO x 4
Other Interface	UART; I2C; SPI

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Thermal	COM	Storage	LAN	USB	Expansion slot	Power	Operation Temp.	Others
SCA-MSN-A10-A001	ARM-Cortex M4 MCU + FPU	—	Fanless	RS-485 x 1	—	10/100 Mb/s Ethernet x 1	Micro USB x 1	Mini PCIe slot x 1	AC 110-220V	0°C ~ 60°C @ 0.5 m/s airflow	3G/4G LTE module (optional)

Packing List

- SCA-MSN

Installation Scenario



DIN-Rail Mount Illustration

Wall Mount Illustration

Optional Accessories

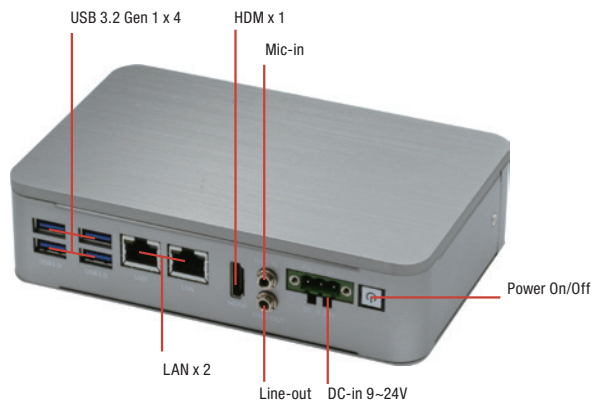
- **9741EC25E0**
PCIe mini card.4G LTE module kit with cable & Antenna, EC25-E
- **9741EG25G0**
PCIe mini card. 4G LTE. module kit. Global Band W/SIM holder. W/Cable & antenna. Quectel. EG25-G
- **9751335201**
Din rail kit. 44 x 48.3mm
- **TBD**
Wall mount kit. 120 x 25mm

Vision System BOX PC & Frame Grabber Card

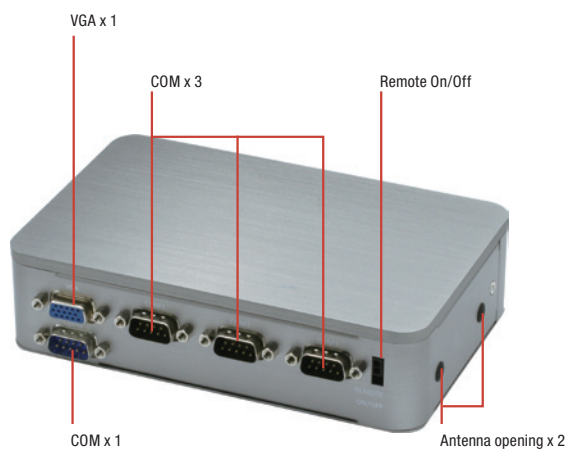
03



Front View



Rear View



Features

- Slim Boxer Design: 42mm
- Rich I/O, Design for Auto System Control
- Wide Operating Temperature -30°C ~ 60°C
- Gigabit Ethernet x 2, USB x 4
- Support Wallmount

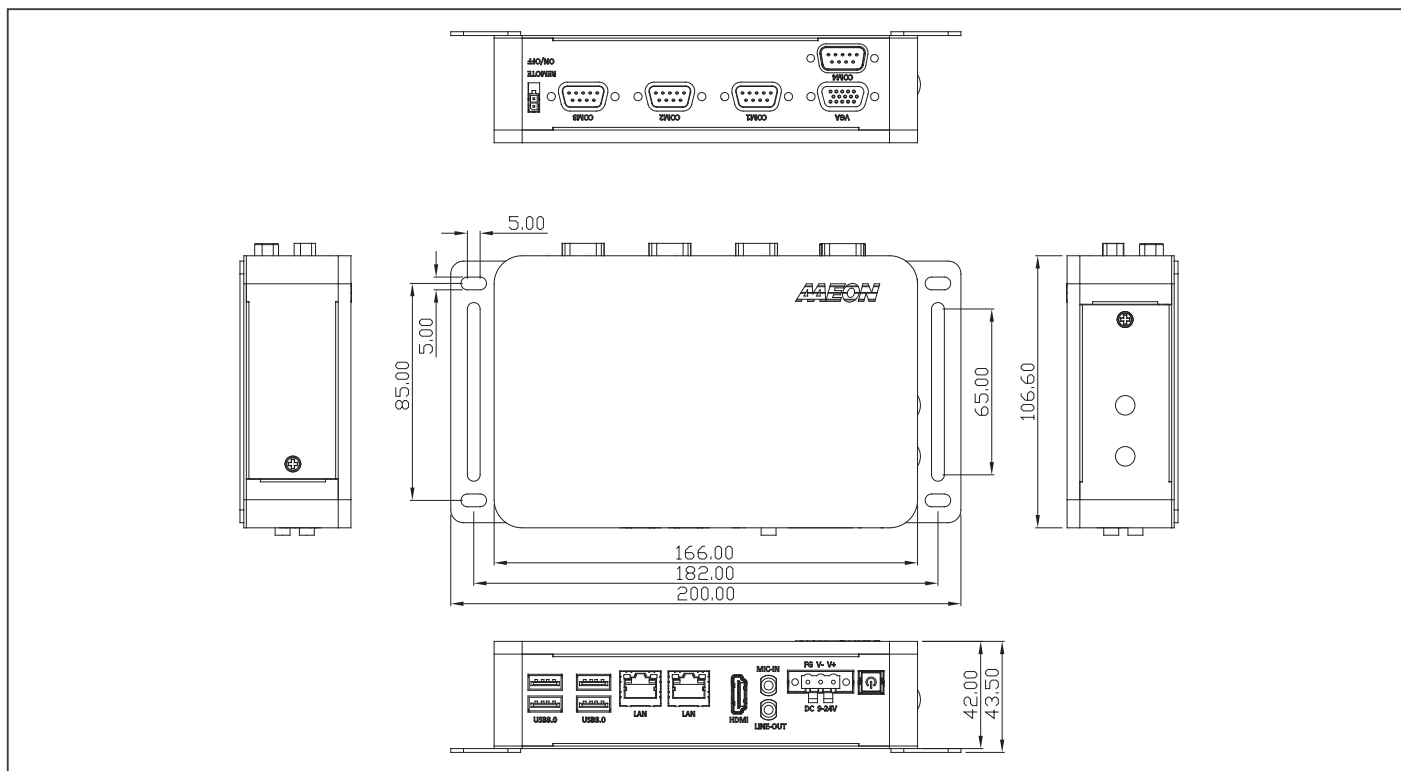


Specifications

System	
CPU	Intel® Celeron®/Pentium® processor
Chipset	Intel® System on Chip
System Memory	DDR3L SODIMM slot x 1 Supports 1867MHz and up to 8GB
Display Interface	HDMI type A x 1 for HDMI v1.4b VGA x 1
Storage Device	HDD/SSD, (mSATA BOM option)
Ethernet	Intel® i211-AT x 2
I/O	Power Button x 1 USB Type A x 4 for USB 3.2 Gen 1 HDMI type A x 1 for HDMI v1.4b RJ-45 x 2 for GbE LAN with LED indicator (i211-AT x 2) Power input x 1 3-pin terminal block in default (+, -, GND) Co-layout 3-pin terminal block & lockable DC-in jack, Co-layout internal DC Mic-in x 1, Line-out x 1 RS-232/422/485 x 4 with automatic flow control (switch by BIOS) VGA x 1 Remote On/Off Antenna opening x 2
Expansion	Full-size Mini PCIe slot x 1 (PCIe/USB/SIM slot), one screw Half-size Minicard slot x 1 (optional for mSATA, PCIe/mSATA)
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Windows® 10, Windows® 10 IoT, Linux
Power Supply	
Power Requirement	3-pin Phoenix DC Input 9~24V without power protection
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.54" x 4.2" x 1.65" (166mm x 106.6mm x 42mm)
Gross Weight	3.6 lb (1.6kg)
Net Weight	1.7 lb (0.8 kg)
Environmental	
Operating Temperature	-22°F ~ 140°F (-30°C ~ 60°C) with W.T. mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial decives)
Storage Temperature	-22°F ~ 140°F (-30°C ~ 60°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation - mSATA 1 Grms/5 ~ 500Hz/ operation - HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp
BOXER-6405M-A1-1010	Intel® N3350	—	2	4	—	—	4	—	MIC-in, Line-out	SSD/HDD x 1	VGA/HDMI x1	Full-size Minicard x1 Half-size Minicard x 1	Wallmount	9~24V	-30°C ~ 60°C
BOXER-6405M-A2-1010	Intel® N4200	—	2	4	—	—	4	—	MIC-in, Line-out	SSD/HDD x 1	VGA/HDMI x1	Full-size Minicard x1 Half-size Minicard x 1	Wallmount	9~24V	-30°C ~ 60°C

Packing List

- **Wallmount Bracket x 2**
- **3 Pin DC-In Power Connector x 1**
- **BOXER-6405M**

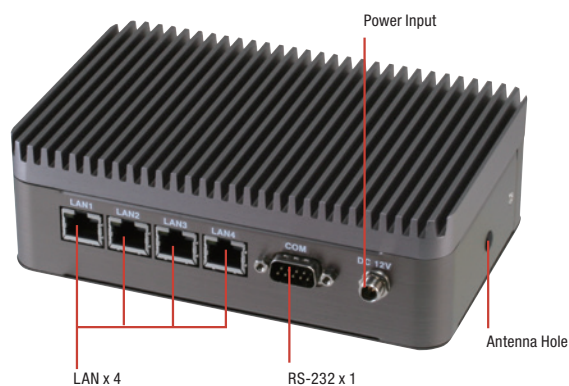
Optional Accessories

- **125530040F**
Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741640404**
Din Rail Mount Kit

Front View



Rear View



Features

- Quad GbE LAN Port for Industrial Network Appliance
- 2.5" HDD/SDD Bay x 1
- Dual HDMI Port
- USB 3.2 Gen 1 Port Connectivity
- Easy Access Storage Bay
- Operating in -22°F ~ 167°F (-30°C ~ 75°C) Environment

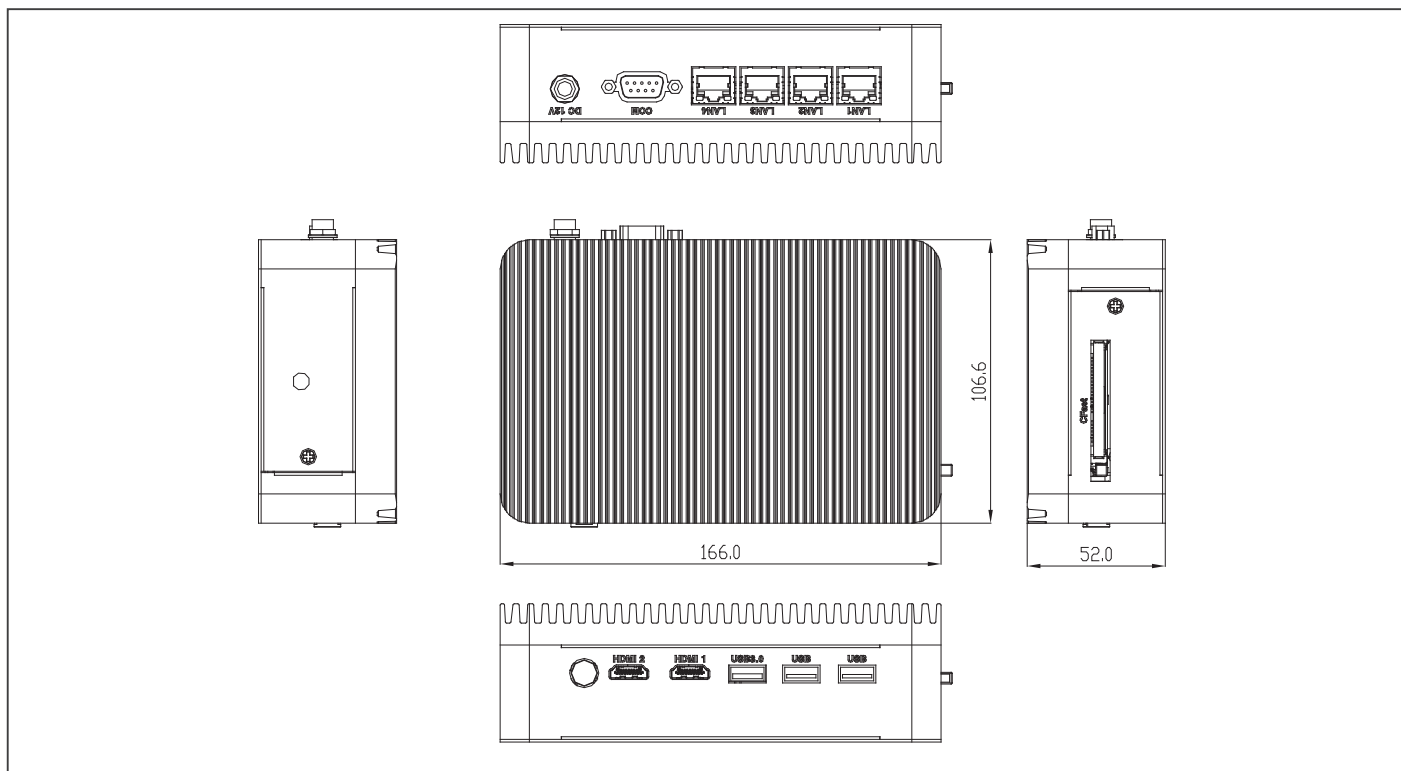


Specifications

System	
CPU	Intel® Celeron® J1900, 2.0 GHz Intel® Celeron® N2807, 1.58 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900) or 4 GB (N2807)
Display Interface	HDMI
Storage Device	CFast™, HDD/SSD
Ethernet	Intel® I211, 10/100/1000Base-TX x 4
I/O	RS-232 x 1 USB 2.0 x 2 USB 3.2 Gen 1 x 1 HDMI x 2 LAN x 4 CFast slot x 1 Antenna hole x 1 Power button Power input
Expansion	Full-size Mini-Card (USB interface only) x 1
Indicator	Power LED on power button
OS support	Windows® 10, Windows® 8.1, Windows® 7, Windows® Embedded 8, Windows® Embedded 7, Linux Fedora
Power Supply	
Power Requirement	12V with lockable DC jack
Mechanical	
Mounting	VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)
Dimensions (W x H x D)	6.53" x 4.20" x 2.05" (166mm x 106.6mm x 52mm)
Gross Weight	3.81 lb (1.73 kg)
Net Weight	2.8 lb (1.27 kg)
Environmental	
Operating Temperature	-22°F ~ 167°F (-30°C ~ 75°C) with wide temperature CFast™ card (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-22°F ~ 176°F (-30°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card or SSD 1 Grms/ 5 ~ 500Hz/ operation –HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	Storage	Display	Expansion	Mounting	Power	Operating Temp.
BOXER-6404M-A1-1110	Intel® J1900	Up to 8GB	4	1	2	1	CFast™ bay x 1 2.5" HDD/SSD bay x 1	HDMI x 2	Full size Mini-card slot x 1 (USB signal)	Din Rail/VESA 75	12V DC in	-30°C ~ 75°C (-22°F ~ 167°F) with 0.5m/s airflow
BOXER-6404M-A2-1110	Intel® N2807	Up to 4GB	2	1	2	1	CFast™ bay x 1 2.5" HDD/SSD bay x 1	HDMI x 1	Full size Mini-card slot x 1 (USB signal)	Din Rail/VESA 75	12V DC in	-30°C ~ 75°C (-22°F ~ 167°F) with 0.5m/s airflow

Packing List

- **125530040C**
Power Adapter
- **BOXER-6404M**

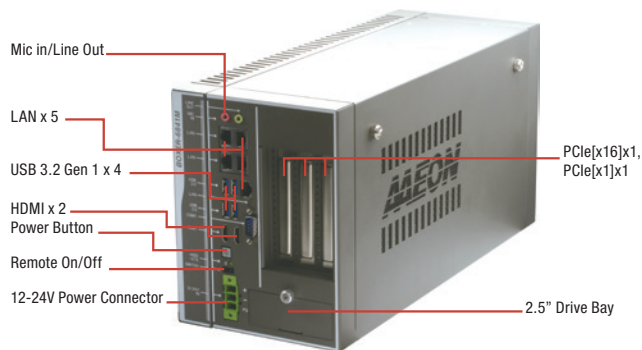
Optional Accessories

- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9751640401**
WiFi Module & Antenna
- **9741EC20E1**
4G Module & Antenna (For Europe)
- **9741640400**
VESA Mount Kit
- **9741640401**
DIN Rail Mount Kit
- **9741640402**
CFast™ Cover Kit

BOXER-6841M-A1

Vision System Embedded Box PC with 6th / 7th Generation Intel® Core™ Desktop Processor and PCIe(x16) + PCIe (x1)

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop processor, Max 65W
- Intel® H110 PCH
- Easy Installation design for expand slot
- Support PCIe[x16] x1, PCIe[x1] x1
- Support up to max 180W Graphic Card
- System Fan with PWM function

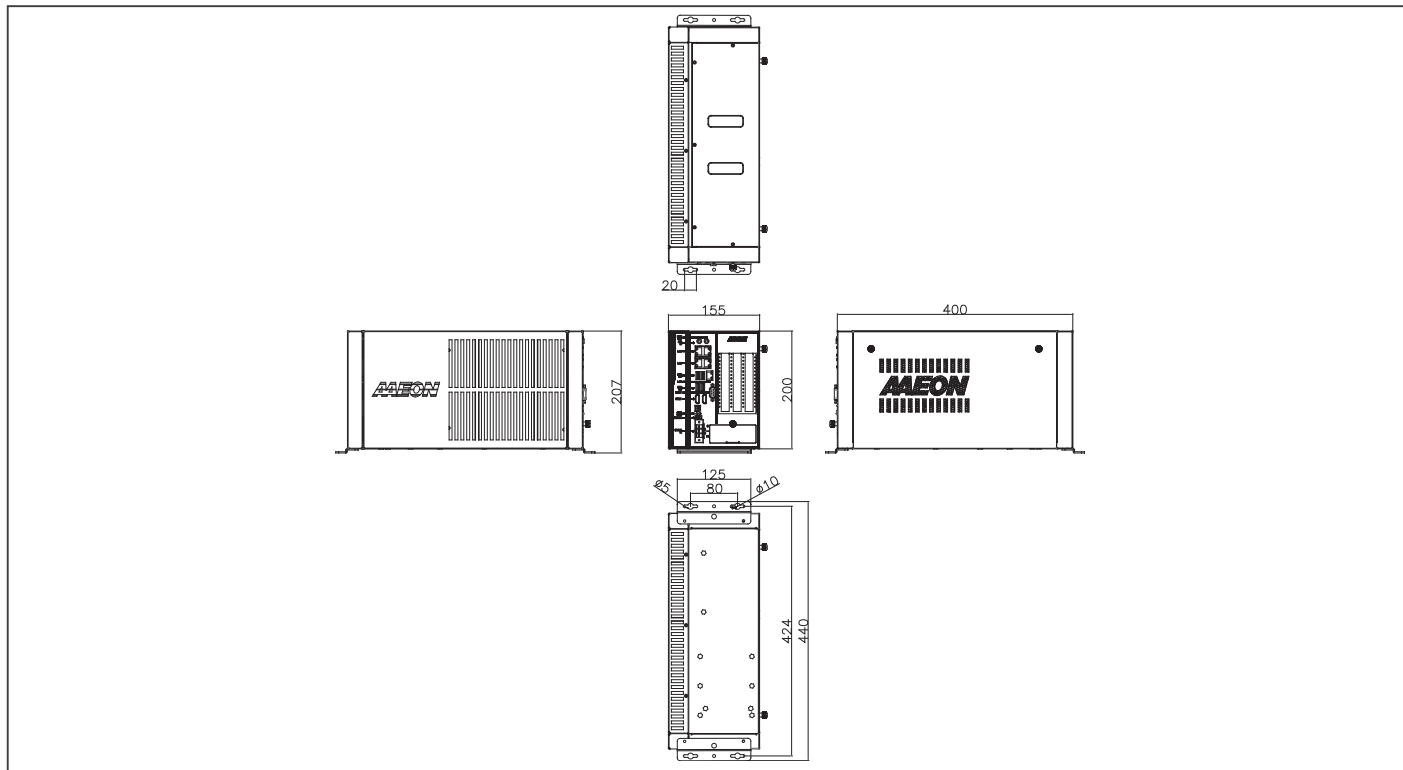


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop Processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz
Chipset	Intel® H110 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI type A x 2 for HDMI v1.4b
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel i211AT x 4, i219LM x 1)
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, -, GND)
Expansion	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 180W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V - CPU < 65W, No Graphic Card: 120W Adapter - CPU ≤ 65W, 180W Graphic Card: 330W Adapter
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)
Gross Weight	18.29 lb (8.3 Kg)
Net Weight	14.53 lb (7 Kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1 Grms, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A1-1010	—	H110	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x2	HDMI x2	Full-size Minicard x2, PCIe[x16] x1, PCIe[x1]x1	Wallmount	DC12~24V - CPU < 65W, No Graphic Card: 120W Adapter - CPU ≤ 65W, 180W Graphic Card: 330W Adapter	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 65W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A1

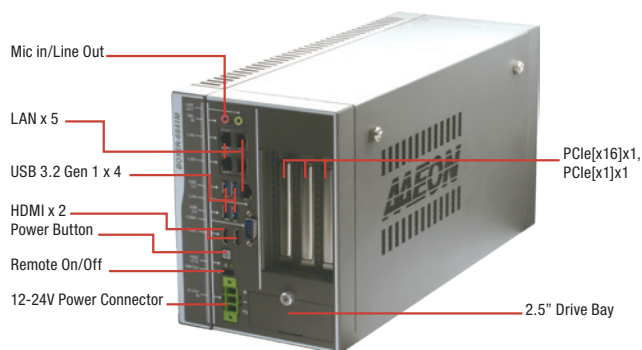
Optional Accessories

- **1255901209**
120W Power Adapter
- **1255903300**
330W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **9697T50300**
Riser Card with PCIe [x16] x 1, max. size of GPU card 312 / 190mm x 113mm x 60mm

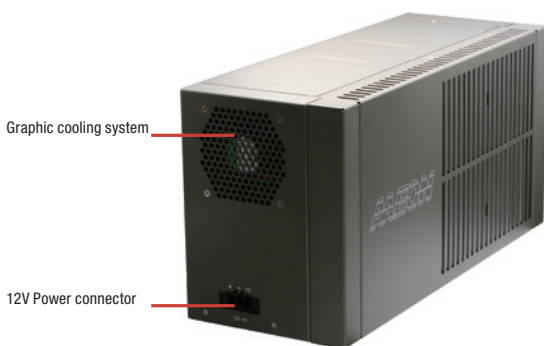
BOXER-6841M-A2

Vision System Embedded Box PC with 6th / 7th Generation Intel® Core™ Desktop Processor and PCIe(x16) + PCIe (x1)

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop processor, Max 65W
- Intel® H110 PCH
- Easy Installation design for expand slot
- Support PCIe[x16] x1, PCIe[x1] x1
- Support up to max 250W Graphic Card
- System Fan with PWM function

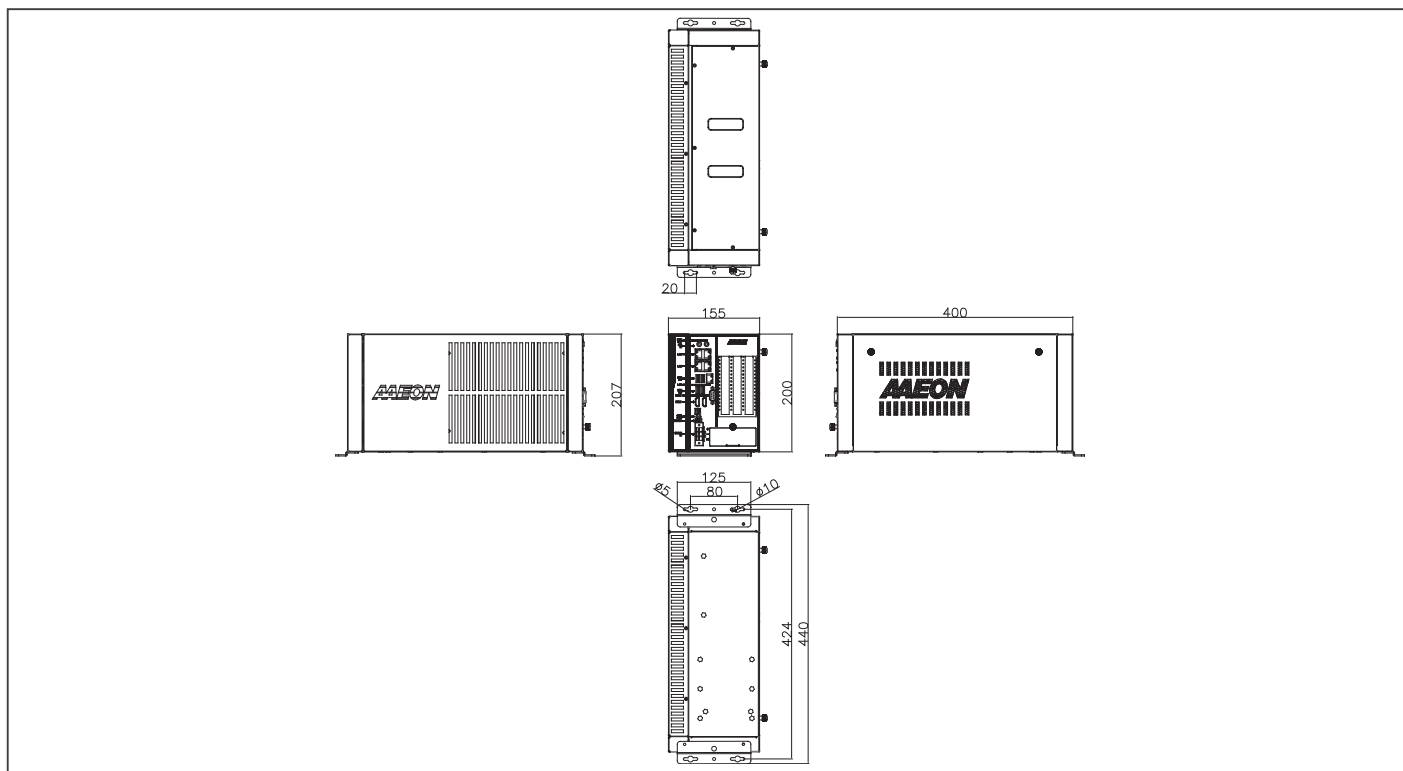


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop Processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz
Chipset	Intel® H110 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI type A x 2 for HDMI v1.4b
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel® i211AT x 4, i219LM x 1)
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, -, GND)
Expansion	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 250W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V For System power, 12V only for Graphic Card - CPU < 65W, No Graphic Card: 120W Adapter - CPU ≤ 65W, 180W < Graphic Card < 250W: 240W Adapter x 2
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)
Gross Weight	18.29 lb (8.3 Kg)
Net Weight	14.53 lb (7 Kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1 Grms, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A2-1010	—	H110	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x 2	HDMI x2	Full-size Minicard x2, PCIe[x16] x1, PCIe[x1]x1	Wallmount	DC-In 12~24V For System power, 12V only for Graphic Card - CPU < 65W, No Graphic Card: 120W Adapter - CPU ≤ 65W, 180W < Graphic Card < 250W: 240W Adapter x 2	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 65W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A2

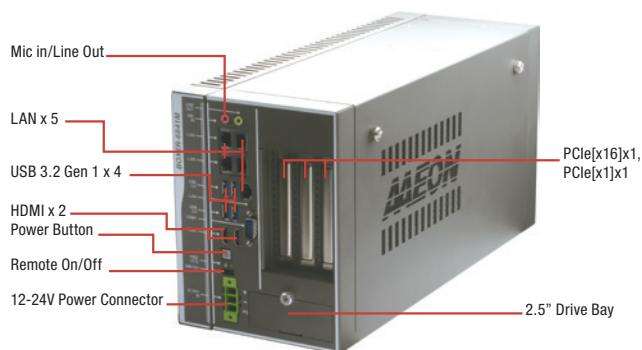
Optional Accessories

- **1255901209**
120W Power Adapter
- **1255902400**
240W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **9697T50300**
Riser Card with PCIe [x16] x 1, max. size of GPU card 312 /190mm x 113mm x 60mm

BOXER-6841M-A3

Vision System Embedded Box PC with 6th / 7th Generation Intel® Core™ Desktop / Xeon® server-grade Processor and PCIe(x16) + PCIe (x1)

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop and Xeon® server-grade processor, Max 73W.
- Intel® C236 PCH
- Easy Installation design for expand slot
- Support PCIe[x16] x1, PCIe[x1] x1
- Support up to max 180W Graphic Card
- System Fan with PWM function

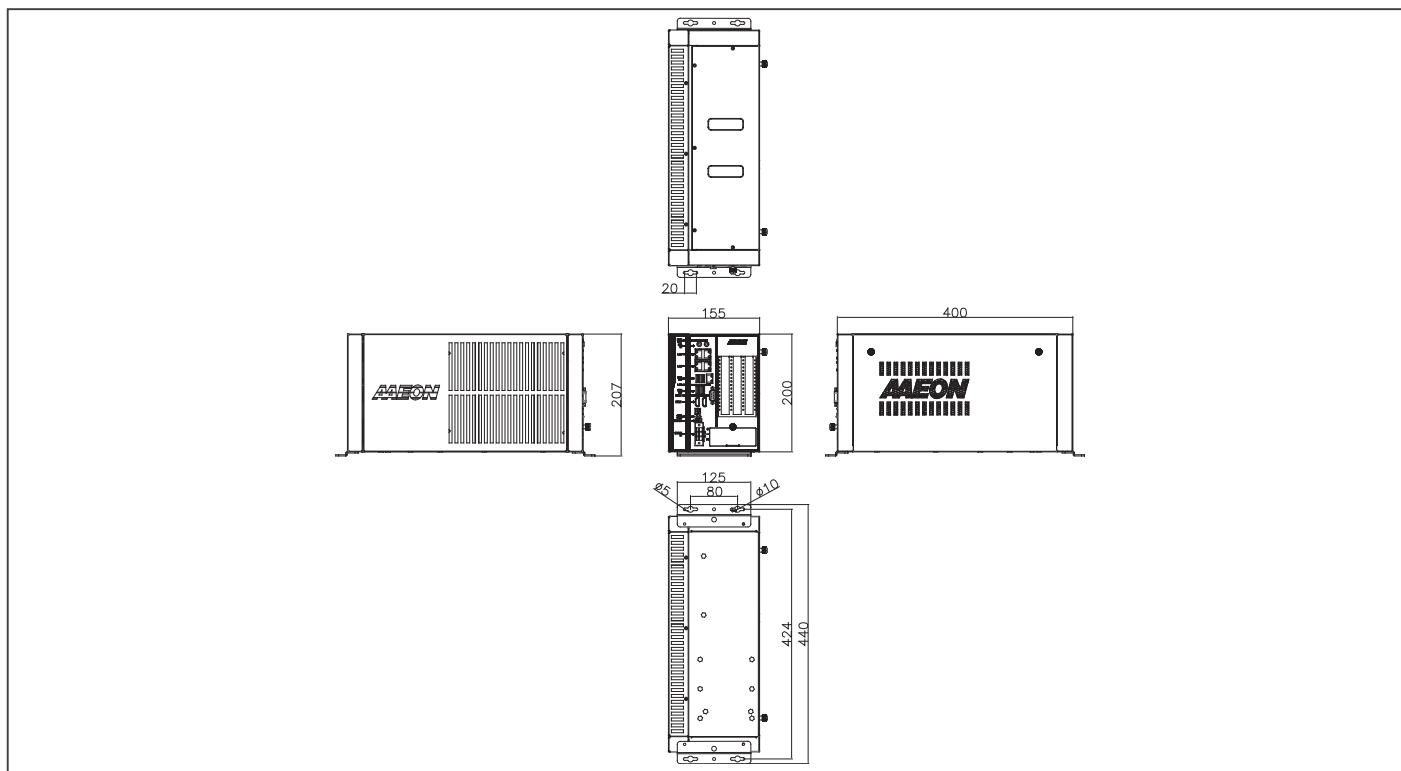


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz
Chipset	Intel® C236 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI type A x 2 for HDMI v1.4b
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel i211AT x 4, i219LM x 1)
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, -, GND)
Expansion	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 180W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 180W Graphic Card: 330W Adapter
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)
Gross Weight	18.29 lb (8.3 Kg)
Net Weight	14.53 lb (7 Kg)
Environmental	
Operating Temperature	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1 Grms, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A3-1010	—	C236	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x 2	HDMI x2	Full-size Minicard x2, PCIe[x16] x1, PCIe[x1]x1	Wallmount	DC-In 12~24V - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 180W Graphic Card: 330W Adapter	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 73W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A3

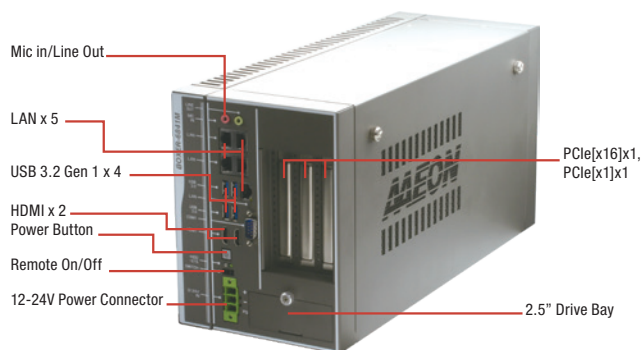
Optional Accessories

- **1255901209**
120W Power Adapter
- **1255903300**
330W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **9697T50300**
Riser Card with PCIe [x16] x 1, max. size of GPU card 312 /190mm x 113mm x 60mm

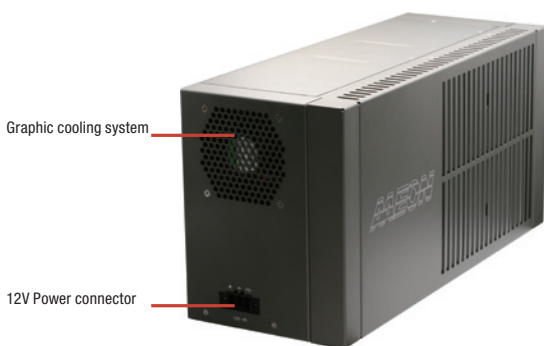
BOXER-6841M-A4

Vision System Embedded Box PC with 6th/7th Generation Intel® Core™ Desktop / Xeon® server-grade Processor and PCIe(x16) + PCIe (x1)

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop and Xeon® server-grade processor, Max 73W.
- Intel® C236 PCH
- Easy Installation design for expand slot
- Support PCIe[x16] x1, PCIe[x1] x1
- Support up to max 250W Graphic Card
- System Fan with PWM function

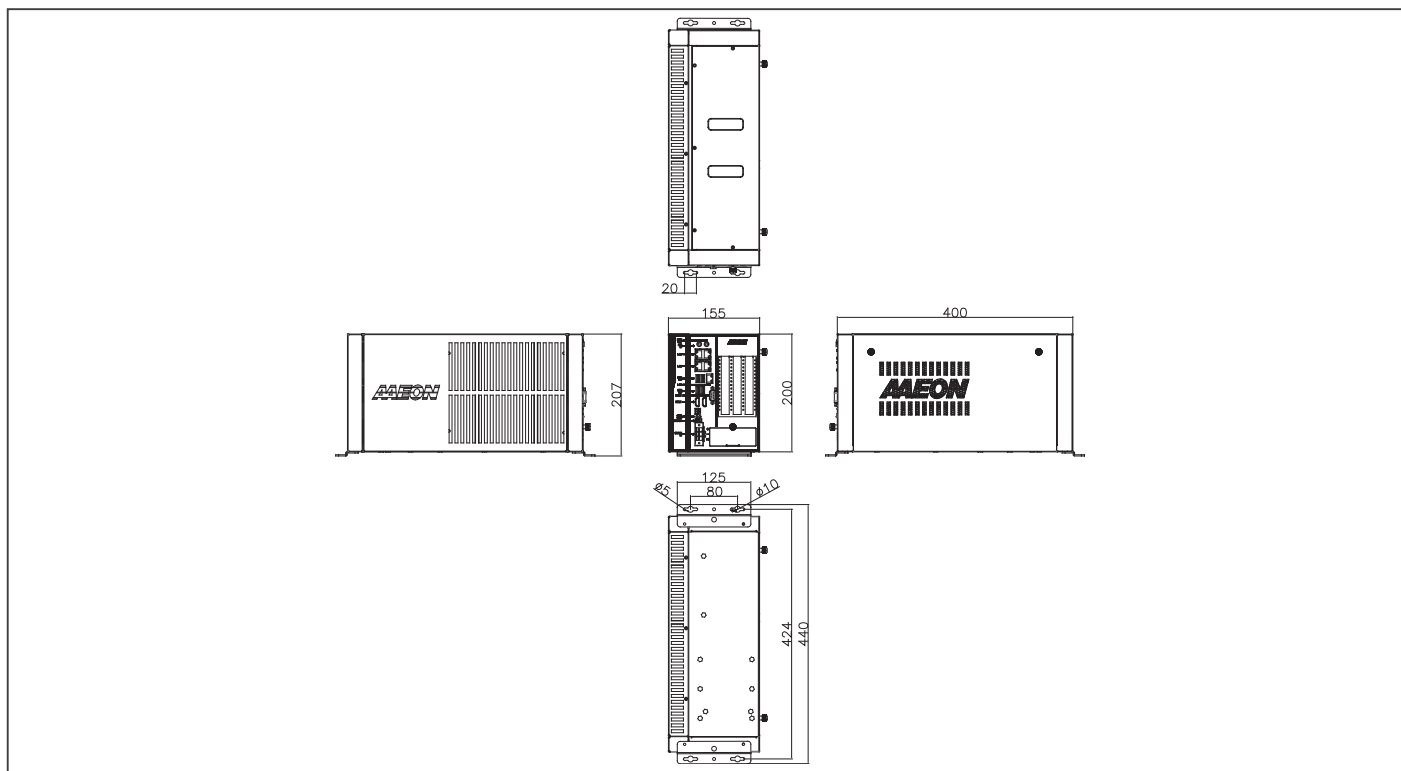


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz
Chipset	Intel® C236 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI type A x 2 for HDMI v1.4b
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel i211AT x4, i219LM x1)
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, -, GND)
Expansion	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 250W - Max. size of GPU card 312 x 113 x 40 mm (Option) Max. size of GPU card 312 x 113 x 60 mm (Riser Card: 9697T50300)
Indicator	Power LED x1, HDD active LED x1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V For System Power, 12V only for Graphic Card - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 250W Graphic Card: 240W Adapter x 2
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 15.75" (155mm x 200mm x 400mm)
Gross Weight	18.29 lb (8.3 Kg)
Net Weight	14.53 lb (7 Kg)
Environmental	
Operating Temperature	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1Grm, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A4-1010	—	C236	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x 2	HDMI x2	Full-size Minicard x2, PCIe[x16] x1, PCIe[x1]x1	Wallmount	DC-In 12~24V For System Power, 12V only for Graphic Card - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 250W Graphic Card: 240W Adapter x 2	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 73W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A4

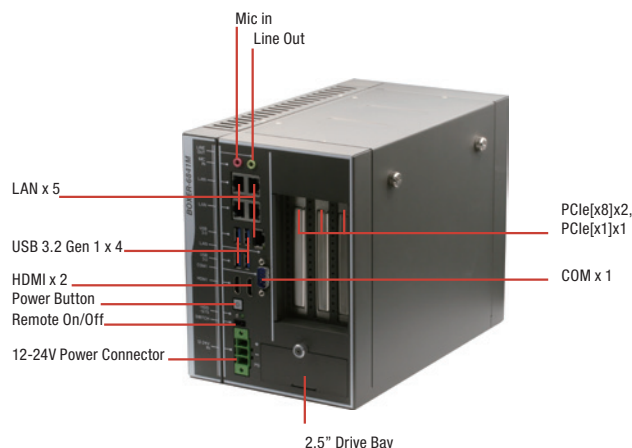
Optional Accessories

- **1255901209**
120W Power Adapter
- **1255902400**
240W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **9697T50300**
Riser Card with PCIe [x16] x 1, max. size of GPU card 312 /190mm x 113mm x 60mm

BOXER-6841M-A5

Vision System Fanless Embedded Box PC with 6th/ 7th Generation Intel® Core™ Desktop / Xeon® server-grade Processor and 2 PCIe(x8) + PCIe (x1)

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop and Xeon® server-grade processor, Max 73W.
- Intel® C236 PCH
- Easy Installation design for expand slot
- Support PCIe[x8] x2, PCIe[x1] x1
- Support frame grabber card
- Fanless system

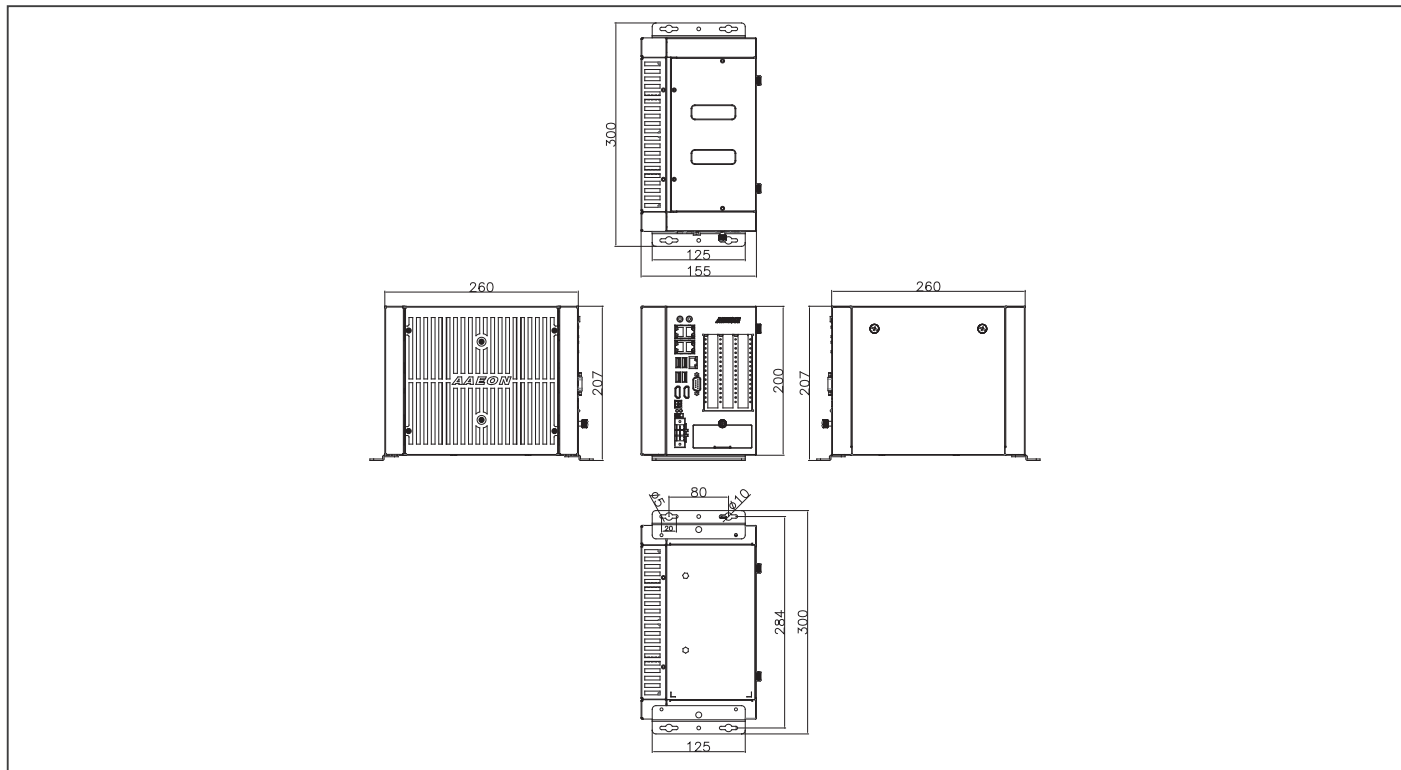


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz
Chipset	Intel® C236 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI type A x 2 for HDMI v1.4b
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel i211AT x 4, i219LM x 1)
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x2 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 3 pin DC Power input x 1 (+, -, GND)
Expansion	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe [x8] x 2 Extension card size limit: 114.55mm(H) x 192mm (L) PCIe [x1] x 1
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V - CPU = 35W: 120W Adapter - 35W < CPU ≤ 73W: 240W Adapter
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 10.24" (155mm x 200mm x 260mm)
Gross Weight	12.75 lb (5.8 kg)
Net Weight	9.9 lb (4.5 Kg)
Environmental	
Operating Temperature	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1Grms, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A5-1010	—	C236	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x 2	HDMI x2	Full-size Minicard x2, PCIe[x8] x2, PCIe[x1]x1	Wallmount	DC-In 12~24V - CPU = 35W: 120W Adapter - 35W < CPU ≤ 73W: 240W Adapter	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 73W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A5

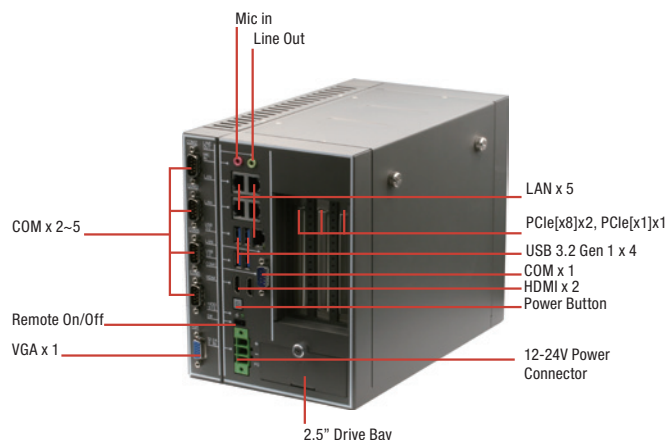
Optional Accessories

- **1255901209**
120W Power Adapter
- **1255902400**
240W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **M046841140**
Main heatsink cover

BOXER-6841M-A6

Vision System Fanless Embedded Box PC with 6th/ 7th Generation Intel® Core™ Desktop / Xeon® server-grade Processor and 2 PCIe(x8) + PCIe (x1)

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop and Xeon® server-grade processor, Max 73W.
- Intel® C236 PCH
- Easy Installation design for expand slot
- Support PCIe[x8] x2, PCIe[x1] x1
- Support frame grabber card
- Fanless system
- 5 COM Port and VGA + HDMIx2 Triple display

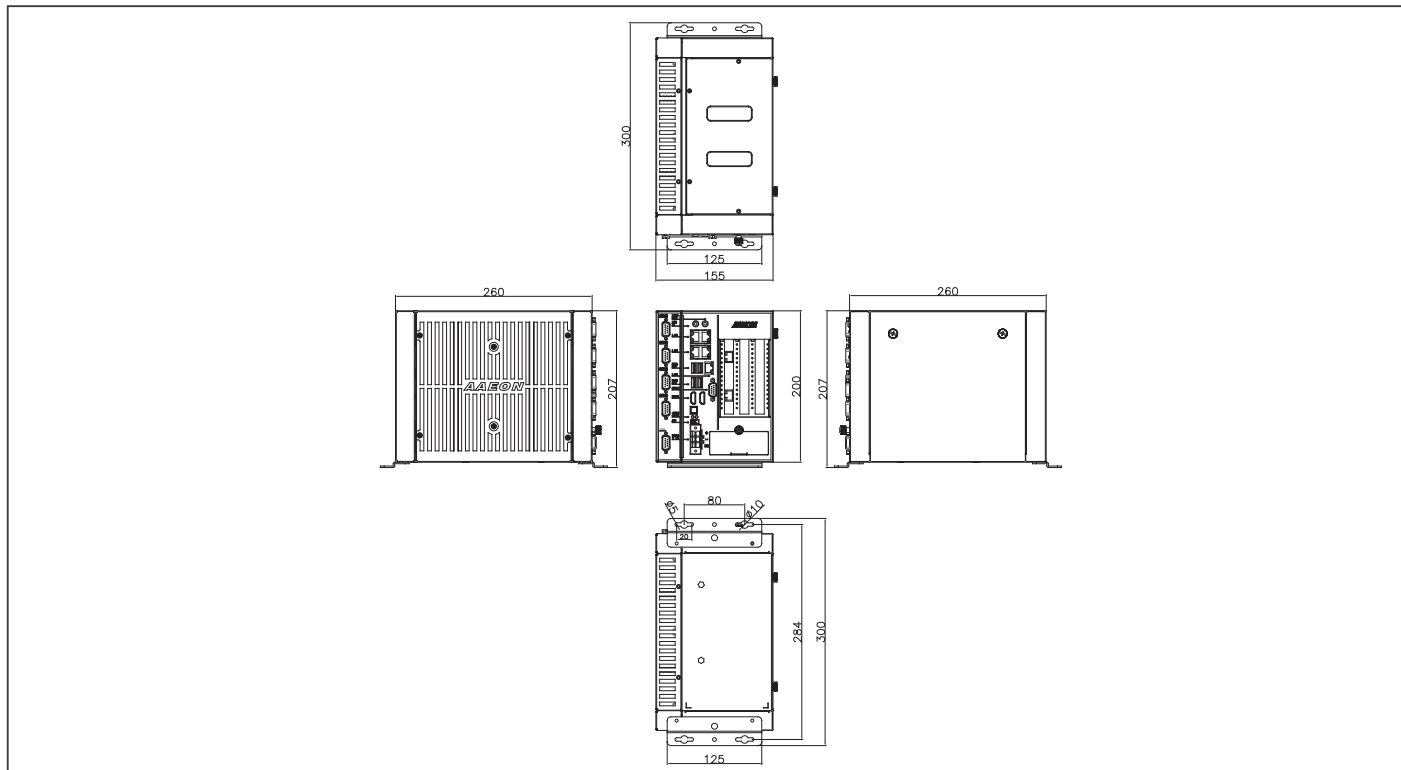


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz
Chipset	Intel® C236 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI type A x 2 for HDMI v1.4b VGA x 1
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel i211AT x 4, i219LM x 1)
I/O	2 pin Remote Power on/off connector Power ON/OFF Switch x 1 HDMI 1.4b x 2 VGA x 1 Audio x 2 (MIC-in, Line-out) USB 3.2 Gen 1 x 4 DB-9 x 1 for RS-232/422/485 DB-9 x 4 for RS-232 3 pin DC Power input x 1 (+, -, GND)
Expansion	Full-size Mini card x 2 (USB, w/ 1 SIM slot) PCIe[x8] x 2 Extension card size limit: 114.55mm(H) x 192mm (L) PCIe[x1] x 1
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V - CPU = 35W: 120W Adapter - 35W < CPU ≤ 73W: 240W Adapter
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 10.24" (155mm x 200mm x 260mm)
Gross Weight	12.75 lb (5.8 kg)
Net Weight	9.9 lb (4.5 Kg)
Environmental	
Operating Temperature	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1 Grms, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A6-1010	—	C236	5	4	1	4	—	MIC-in, Line-out	2.5" Drive Bay x2	HDMI x2, VGA x1	Full-size Minicard x2, PCIe[x8] x2, PCIe[x1]x1	Wallmount	DC-In 12-24V - CPU = 35W: 120W Adapter - 35W < CPU ≤ 73W: 240W Adapter	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 73W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A6

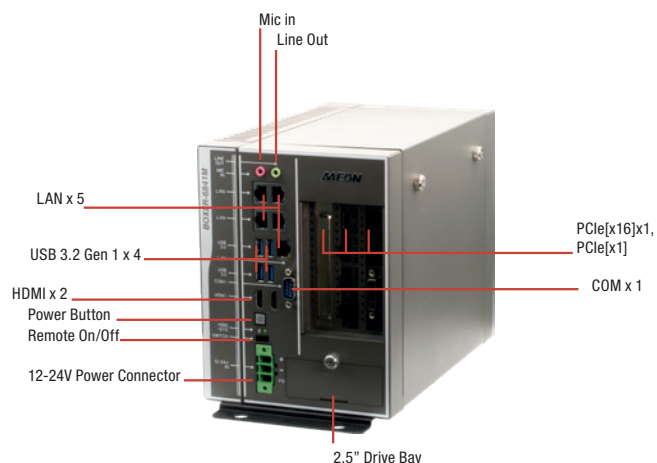
Optional Accessories

- **1255901209**
120W Power Adapter
- **1255902400**
240W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **M046841140**
Main heatsink cover

BOXER-6841M-A7

Vision System Embedded Box PC with 6th/ 7th Generation Intel® Core™ Desktop / Xeon® server-grade Processor and PCIe[x16] + PCIe [x1]

Front View



Rear View



Features

- Support 6th / 7th Core-i desktop and Xeon® server-grade processor, Max 73W.
- Intel® C236 PCH
- Easy Installation design for expand slot
- Support PCIe[x16] x1, PCIe[x1] x1
- System Fan with PWM function

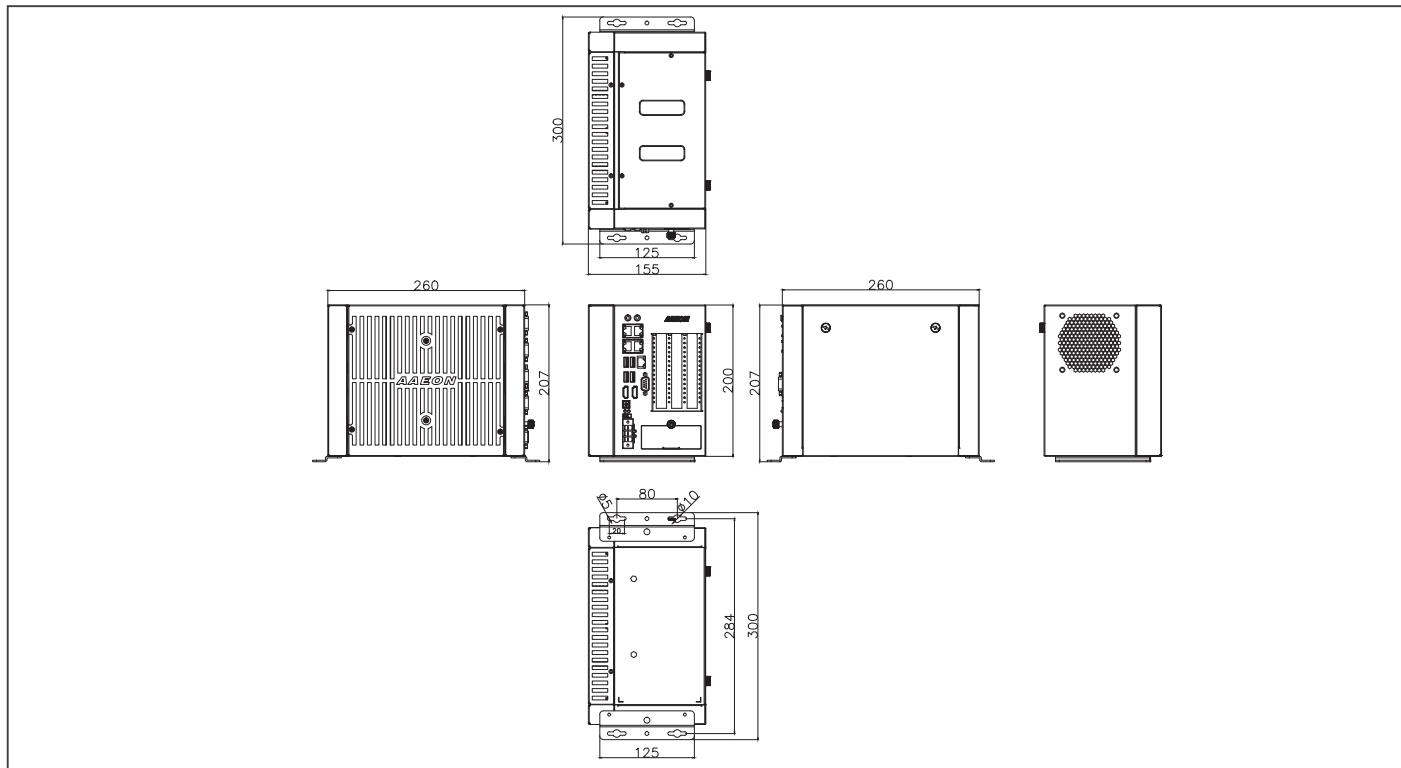


Specifications

System	
CPU	6th / 7th Generation Intel® Core™-i desktop and Xeon® server grade processor -Intel® Core™ i7-6700TE, 2.4 GHz -Intel® Core™ i5-6500TE, 2.3 GHz -Intel® Core™ i3-6100TE, 2.7 GHz -Intel® Core™ i7-7700, 3.6 GHz -Intel® Core™ i7-7700T, 2.9 GHz -Intel® Core™ i3-7101TE, 3.4 GHz -Intel® Xeon® E3-1268L v5, 2.40 GHz -Intel® Xeon® E3-1275 v6, 3.80 GHz
Chipset	Intel® C236 PCH
System Memory	DDR4 ECC or Non-ECC SODIMM, up to 32GB
Display Interface	HDMI 1.4b
Storage Device	2.5" Drive Bay x 2
Ethernet	RJ-45 x 5 for GbE (Intel® i211AT x4, i219LM x1)
I/O	Audio x 2 (MIC-in, Line-out) RJ-45 x 5 for GbE LAN USB Type A x 4 for USB 3.2 Gen 1 DB-9 x 1 for RS-232/422/485 HDMI type A x2 for HDMI v1.4b Power ON/OFF Switch x 1 2 pin Remote Power on/off connector x1 Power input x 1
Expansion	Full-size Mini card x2 (USB, w/ 1 SIM slot) PCIe [x1] x 1 PCIe [x16] x 1 - Power Consumption of GPU card max. 180W - Max. size of GPU card 190 x 113 x 40 mm (Option) Max. size of GPU card 190 x 113 x 60 mm (Riser Card: 9697T50300)
Indicator	Power LED x 1, HDD active LED x 1
OS Support	Skylake S Windows® 10, Windows® 10 IoT, Windows® 8.1, Windows® Embedded Standard 8, Windows® 7, Windows® Embedded Standard 7, Ubuntu 16.04.2 Kabylake Windows® 10, Windows® 10 IoT, Ubuntu 16.04.2
Power Supply	
Power Requirement	DC-In 12~24V - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 180W Graphic Card: 330W Adapter
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.10" x 7.87" x 10.24" (155mm x 200mm x 260mm)
Gross Weight	12.75 lb (5.8 kg)
Net Weight	9.9 lb (4.5 Kg)
Environmental	
Operating Temperature	-4°F ~131°F (-20°C ~ 55°C) according to IEC60068-2 with 0.5m/s airflow (TDP 35W Processor) -4°F ~113°F (-20°C ~ 45°C) according to IEC60068-2 with 0.5m/s airflow (TDP 73W Processor)
Storage Temperature	-4°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	Random, 1 Grms, 5~500Hz, Anti-vibration design
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.2 Gen 1	RS-232 /422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6841M-A7-1010	—	C236	5	4	1	—	—	MIC-in, Line-out	2.5" Drive Bay x2	HDMI x2	Full-size Minicard x2, PCIe[x16] x 1, PCIe[x1] x 1	Wallmount	DC-In 12~24V - CPU < 73W, No Graphic Card: 120W Adapter - CPU ≤ 73W, 180W Graphic Card: 330W Adapter	-20°C ~ 55°C with 0.5m/s airflow (TDP 35W Processor) -20°C ~ 45°C with 0.5m/s airflow (TDP 73W Processor)

Packing List

- Wallmount Bracket x 2
- 3 Pin DC-in Power Connector x 1
- Screw Package x 1
- Thermal Pad Package x 1
- BOXER-6841M-A7

Optional Accessories

- **1255901209**
120W Power Adapter
- **1255903300**
330W Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741EC25A0**
4G Module & Antenna (for USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (for USA-Verizon)
- **M046841140**
Main heatsink cover
- **9697T50300**
Riser Card with PCIe [x16] x 1, max. size of GPU card 312 /190mm x 113mm x 60mm

BOXER-6842M

Vision System Embedded BOX PC with 8th Generation Intel® Processor

Front View

Launching in Q1

Rear View

Features

- High Computing Power
- Coffee Lake-S LGA 1151 Desktop Processor
- VGA + HDMI x 2 for Triple Display
- Support C246 PCH
- Support PCIe [x16] and PCIe [x4]

Specifications

System	
CPU	Intel Xeon® E-2124G Intel i7-8700T Intel i5-8500T Intel i3-8100T Pentium G5400T Celeron G4900T PS. Turbo Boost default disable PS. Support max. TPD 71W Processor
Chipset	C246 (TDP:6W), No H310 downward support
System Memory	4 x DDR4 SO-DIMM socket (double deck) Supports 2133MHz and max. up to 32GB*4=128GB Support un-buffered and ECC / non-ECC type SODIMM
Display Interface	VGA + HDMI x2 Support Triple Independent display, 4K Ultra HD displays
Storage Device	mSATA x 2 2.5" SATA Drive bay x 2
Ethernet	10/100/1000 Base-TX x 3
I/O	VGA + HDMI x2 (C246) RJ-45 x 3 for GbE LAN Audio (Mic-in, Line-out) USB 3.1 x6 DB-9 x 6 for RS-232/422/485 with automatic flow control (refer to 6639) TTL Level DIO (refer to BOXER-6639) 3 pin DC Power input x 1 (+, -, GND) Power ON/OFF switch x 1 2 pin Remote power on/off connector Reset switch AT/ATX Switch (refer to BOXER-6616)
Expansion	Full-size Mini card x 2 SIM card slot x 1 M.2 M key (2242) x 1 PCIEx4 slot x1 PCIEx16 slot x1
Reserved Connector	Internal, SATA Power x4 Internal, USB 2.0 x4 (reserved) Internal, LPC x1 Internal, Audio (reserved) Internal, Fan connector x 2 + Thermal Sensor
Indicator	System Power LED x 1 (Green) Storage Active LED x 1 (Yellow or Amber)
OS Support	Windows 10, Linux
Power Supply	
Power Requirement	3-pin Phoenix DC Input 12~24V - Optional 110/230V AC adapter - Connector refer to BOXER-6841M - Rear Side 2nd Phoenix DC Input 12V for GPU
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	TBD
Gross Weight	TBD
Net Weight	TBD
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5m/s airflow -4°F ~ 113°F (-20°C ~ 45°C) with 0.5m/s airflow – Xeon E-2124G
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40C, non-condensing
Anti-Vibration	SSD/mSATA: Random, 3Grms, 5~500Hz HDD: Random, 1Grms, 5~500Hz
Certification	CE / FCC class A Pre-scan

Dimension Unit: mm



Ordering Information

Part Number	CPU	PCH	LAN	USB 3.1	RS-232/422/485	RS-232	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6842M-A1-1010	—	C236	3	6	6	—	TTL Level	Mic-in, Line-out x1	mSATA x 2 2.5" SATA Drive bay x 2	VGA + HDMI x2	Full-size Mini card x 2 SIM card slot x 1 M.2 M key (2242) x 1 PCIEx4 slot x1 PCIEx16 slot x1	Wallmount	3-pin Phoenix DC Input 12~24V 2nd Phoenix DC Input 12V for GPU	-20°C ~ 55°C with 0.5m/s airflow -20°C ~ 45°C with 0.5m/s airflow – Xeon E-2124G

Packing List

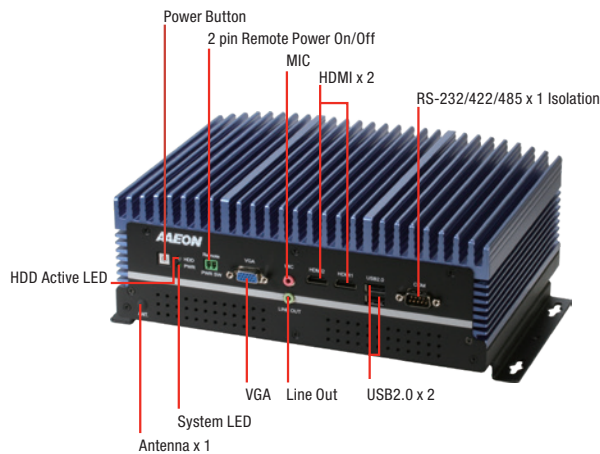
- BOXER-6842M-A1

Optional Accessories

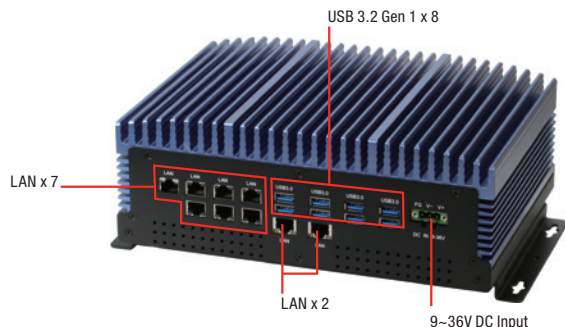
- TBD

Vision System Fanless Embedded Box PC with 6th/7th Generation Intel® Core™ Desktop Processor and Multi GbE LAN & USB 3.2 Gen 1

Front View



Rear View



Features

- Extreme Computing Power & Graphic Display Capability
- Desktop Grade Socket Type Processor with Longevity Support
- Supports DDR4 1866/2133 SODIMM, Up to 32GB
- VGA + HDMI x 2 Triple Display, HDMI 4K Display
- USB 3.2 Gen 1 x 8, USB 2.0 x 2
- Industrial-grade Intel® GbE LAN x 9
- Isolated RS-232/422/485 x 1
- Compact Size and Easy Access Design
- Wide Range DC 9~36V Input

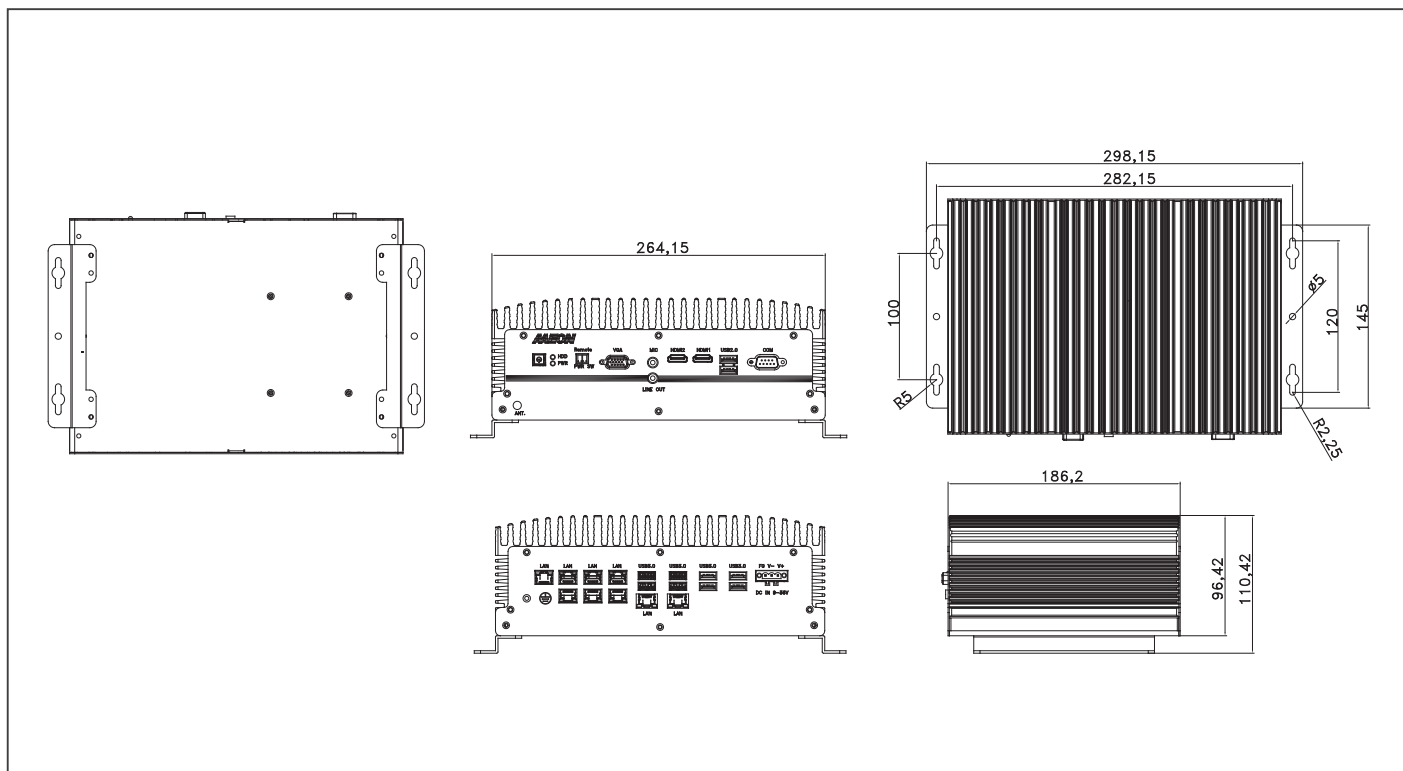


Specifications

System	
CPU	7th Generation Intel® Core™ Processor family: Intel® Core™ i7-7700T, 2.9 GHz Intel® Core™ i5-7500T, 2.8 GHz Intel® Core™ i3-7101TE, 3.4 GHz Intel® Pentium® G4560T, 2.9 GHz 6th Generation Intel® Core™ Processor family: Intel® Core™ i7-6700TE, 2.4 GHz Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz Intel® Pentium® G4500T, 3.0 GHz Intel® Pentium® G4400TE, 2.9 GHz
Chipset	Intel® H170
System Memory	DDR4 1866/2133 SODIMM slot x 2, up to 32 GB, ECC or Non-ECC support
Display Interface	HDMI, VGA
Storage Device	mSATA, HDD/SSD
Ethernet	Intel® I210, 10/100/1000 Base-TX x 9
I/O	RS-232/422/485 x 1 isolation USB Type A x 8 for USB 3.2 Gen 1, USB Type A x 2 for USB 2.0 RJ-45 x 9 for GbE LAN, Power On/Off Button x 1, 2 pin Remote power on/off VGA x 1, Mic-in x 1, Line-out x 1, Antenna opening x 1 SYS LED indicator x 1, HDD LED indicator x 1 DB-15 x 1 for VGA, HDMI v1.3 x 2 DC-in 3-pin terminal block (9~36V)
Expansion	Full-size Mini card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini card x 1 (PCI-E, BOM optional mSATA + USB)
OS Support	7th Generation Intel® Core™ Processor family: Windows® 10 IoT (64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above 6th Generation Intel® Core™ Processor family: Windows® 10 IoT (64bit), Windows® 8.1 (64bit), Windows® embedded 8 standard (64bit), Windows® 7 (32bit/64bit), Windows® embedded standard 7 (32/64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above
Power Supply	
Power Requirement	9 - 36V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.40" x 3.80" x 7.33" (264.2mm x 96.4mm x 186.2mm)
Gross Weight	12.8 lb (5.8 kg)
Net Weight	9.9 lb (4.5 kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-49°F ~ 158°F (-45°C ~ 70°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	2 Grms/ 5 ~ 500Hz/ operation - SSD 1 Grms/ 5 ~ 500Hz/ operation - HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6640M-A1-1010	—	—	9	8	2	1	—	MIC-in, Line-out	2.5" SATA Drive bay x 1	VGA x 1 HDMI x 2	Full-size Mini card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini card x 1 (PCI-E, BOM optional mSATA + USB)	Wallmount	9-36V	-4°F ~ 122°F (-20°C ~ 50°C)

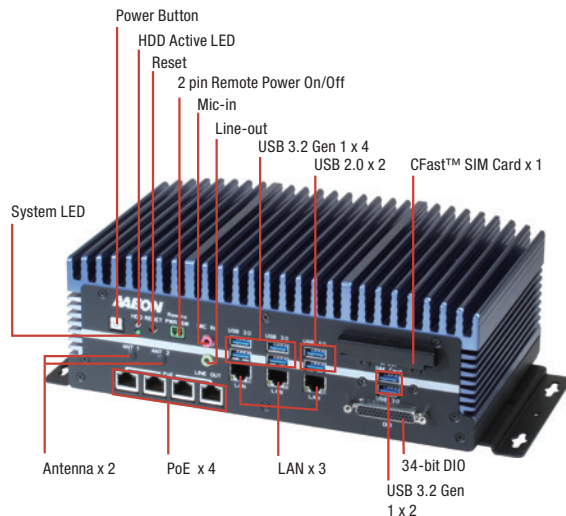
Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- Phoenix Power Connector x 1
- BOXER-6640M

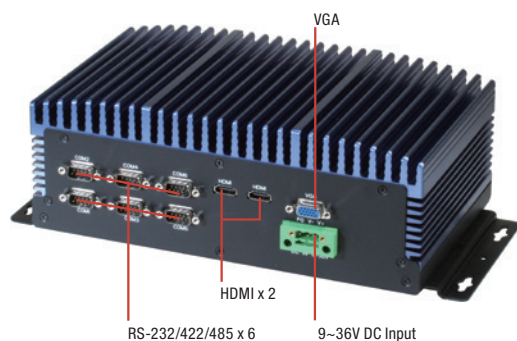
Optional Accessories

- **1255902200**
220W Power Adapter
- **1255901202**
120W Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)
- **9741159H00**
WiFi/Bluetooth Module & Antenna
- **9741EC25E0**
4G Module & Antenna (For Europe)
- **9741EC25A0**
4G Module & Antenna (For USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (For USA-Verizon)

Front View



Rear View



Features

- Extreme Computing Power & Graphic Display Capability
- Desktop Grade Socket Type Processor with Longevity Support
- DDR4 ECC or Non-ECC SODIMM, Up to 32GB
- VGA + HDMI x 2 Triple Display, HDMI 4K Display
- 802.3at GbE PoE x 4 (Max. 80W in total)
- USB 3.2 Gen 1 x 6
- Industrial-grade Intel® GbE LAN x 3
- Supports BIOS Selectable RS-232/422/485 x 6
- Easy Access Design
- Wide Range DC 12~36V Input
- 34-bit Digital Input and Output

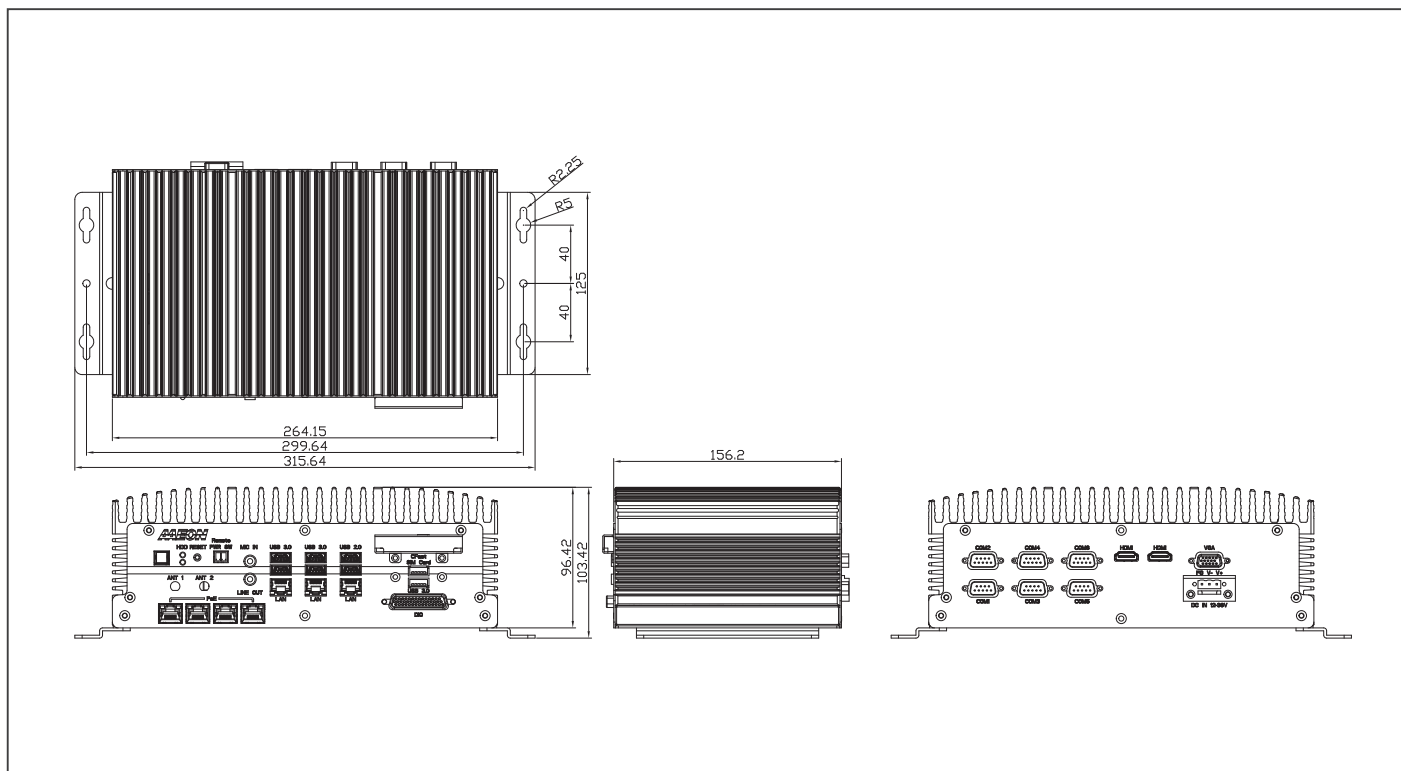


Specifications

System	
CPU	7th Generation Intel® Core™ Processor family: Intel® Core™ i7-7700T, 2.9 GHz Intel® Core™ i5-7500T, 2.8 GHz Intel® Core™ i3-7101TE, 3.4 GHz Intel® Pentium® G4600T, 3.0 GHz Intel® Pentium® G4560T, 2.9 GHz Intel® Celeron® G3930T, 2.7 GHz 6th Generation Intel® Core™ Processor family: Intel® Core™ i7-6700TE, 2.4 GHz Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz Intel® Pentium® G4500T, 3.0 GHz Intel® Pentium® G4400T, 2.9 GHz Intel® Celeron® G3900T, 2.6 GHz
Chipset	Intel® Q170
System memory	DDR4 1866/2133 SODIMM slot x 2, up to 32GB
Display Interface	HDMI, VGA
Storage Device	CFast™, HDD/SSD
Ethernet	Intel® I210, 10/100/1000 Base-TX x 3
I/O	RS-232/422/485 x 6, USB Type A x 6 for USB 3.2 Gen 1, USB Type A x 2 for USB 2.0 RJ-45 x 3 for GbE LAN, RJ-45 x 4 for PoE (802.3at, max. 80W in total) DB-44 for 34-bit Digital I/O (5V), CFast™ slot x 1, SIM card slot x 1 Power On/Off Button x 1, 2 pin Remote power on/off, Reset switch Mic-in x 1, Line-out x 1, Antenna opening x 2, SYS LED indicator x 1, HDD LED indicator x 1, DB-15 x 1 for VGA, HDMI v1.3 x 2, DC-in 3-pin terminal block (12~36V)
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini-Card x 1 (PCI-E + USB, Optional for mSATA and SIM Slot)
Indicator	Power LED, HDD active LED
OS Support	7th Generation Intel® Core™ Processor family: Windows® 10 IoT (64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above 6th Generation Intel® Core™ Processor family: Windows® 10 IoT (64bit), Windows® 8.1 (64bit), Windows® Embedded 8 Standard (64bit), Windows® 7 (32/64bit), Windows® Embedded Standard 7 (32/64bit), Ubuntu 16.04 above, Fedora 25 above, CentOS 7.3 above
Power Supply	
Power Requirement	12 - 36V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.4" x 3.8" x 6.1" (264.2mm x 96.4mm x 154.2mm)
Gross Weight	13.0 lb (5.9 kg)
Net Weight	8.8 lb (4.0 kg)
Environmental	
Operating Temperature	-13°F ~ 131°F (-25°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation – SSD/CFast™ card 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	PoE	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operating Temp.
BOXER-6639M-A1-1010	—	—	3	4	6	2	6	34 bit	MIC-In x 1 Line-Out x 1	2.5" Drive Bay x 1 CFast™ x 1	VGA x 1 HDMI x 2	Full-size Minicard x 2	Wallmount	12~36V DC in	-13°F ~ 131°F (-25°C ~ 55°C)

Packing List

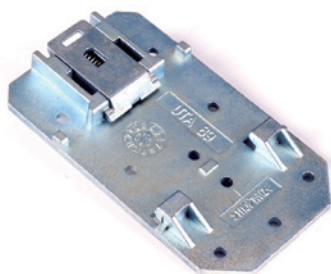
- Wallmount Bracket x 2
- Screw Package x 1
- Thermal Pad x 3
- Phoenix Connector x 2
- BOXER-6639M

Optional Accessories

- **1255902200**
220W Power Adapter (for 2 or above PoE cameras)
- **1255901202**
120W Power Adapter (for only 1 PoE camera)
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)
- **9741159H00**
WiFi/Bluetooth Module & Antenna
- **9741EC25E0**
4G Module & Antenna (For Europe)
- **9741EC25A0**
4G Module & Antenna (For USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (For USA-Verizon)
- **9761639M00**
2nd HDD Kit

9741681003

DIN Rail Mounting Kit

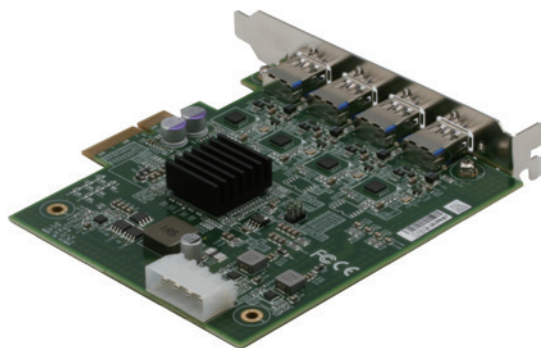


Features

- Universal Patented Spring Lock Design
- DIN Rail: NS 35/7.5, NS 35/15
- For AEC-6612/6613, BOXER-6614

Ordering Information

- 9741681003
DIN Rail Mounting Kit



Features

- PCI-Express® [x4] Gen. 2 Compliant
- 4 Independent USB 3.2 Gen 1 Host Controller
- Supports Bandwidth 5 Gb/s for Each Port
- Supports Lockable USB Connector



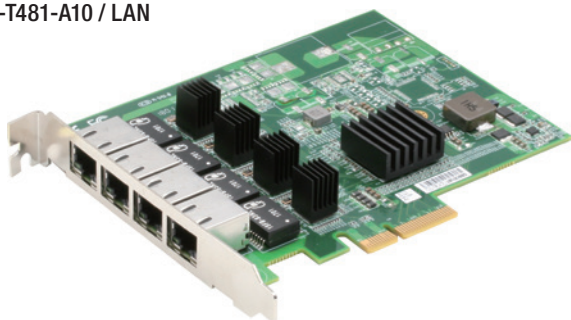
Specifications

System	
Bus Interface	PCI-Express® [x4], Gen 2 PCI-Express Specification Revision 2.1 at 5GT/s
USB	4 independent USB 3.2 Gen 1 host controllers 900mA @ 5V for each port Compliant with USB 3.2 Gen 1 Specification Revision 1.0 4 downstream USB ports support SS/HS/FS/LS data rates (5Gbps/480Mbps/12Mbps/1.5Mbps)
USB Connector	4 USB 3.2 Gen 1 Type-A connectors with lockable screw threads
OS Support	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit) Linux
Power Supply	
Power Requirement	5-12V from external IDE 4-pin power connector
Mechanical	
Dimensions (W x D)	4.72" x 4.21" (120mm x 107mm)
Environmental	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-49°F ~ 185°F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing

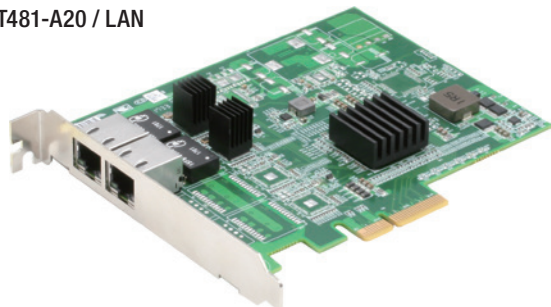
Ordering Information

- **PER-T479-A11-00**
4-Port USB 3.2 Gen 1 PCI-E [x4] Frame Grabber Card

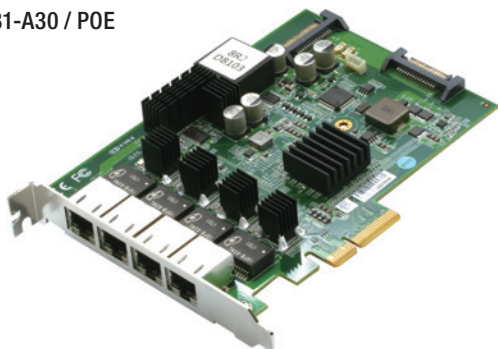
PER-T481-A10 / LAN



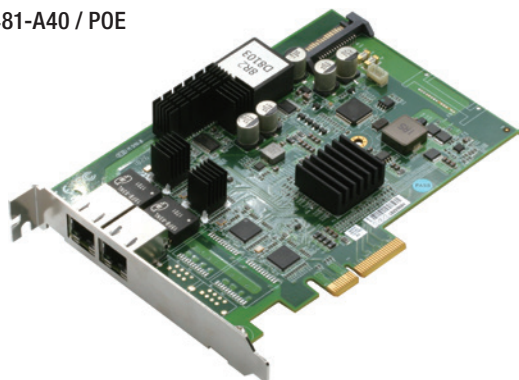
PER-T481-A20 / LAN



PER-T481-A30 / POE



PER-T481-A40 / POE



Features

LAN:

- PCI-Express® [x4] Gen. 2 Compliant
- Gigabit Ethernet Controller, Intel® i211AT
- Supports Bandwidth 1Gb/s for Each Port
- Supports for Link Aggregation/Jumbo Frames (9 KByte)

POE:

- PCI-Express® [x4] Gen 2 Compliant
- Gigabit Ethernet Controller, Intel® i211AT
- Supports Bandwidth 1Gb/s for Each Port
- Supports for Link Aggregation/Jumbo Frames (9 KByte)
- Supports Smart POE (Linux not Supported)



Specifications

System	
Bus Interface	PCI-Express® [x4], Gen 2 PCI-Express Specification Revision 2.0 at 5GT/s
USB	—
USB Connector	—
Ethernet	LAN: Intel® i211AT Ethernet Controller x 4 (A10) Intel® i211AT Ethernet Controller x 2 (A20) Fully compliant with IEEE 802.3 and IEEE 802.3u Support IEEE 1588 precision time synchronization POE: Intel® i211AT Ethernet Controller x 4 (A30) Intel® i211AT Ethernet Controller x 2 (A40) Fully compliant with IEEE 802.3 and IEEE 802.3u Support IEEE 1588 precision time synchronization Support IEEE 802.3 at
OS Support	LAN: Windows® 10(32/64-bit), Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit), Linux POE: Windows® 10(32/64-bit), Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit) (Linux not Supported)
Power Supply	
Power Requirement	LAN: Max. 10W POE: 4POE DUAL SATA Power (15 pin) DC Input 12~24V, Max. 90W for 4ports (A30) 2POE DUAL SATA Power (15 pin) DC Input 12~24V, Max. 60W for 2ports (A40)
Mechanical	
Dimensions (W x D)	LAN: 4.33" x 5.35" (110mm x 136mm) POE: 4.41" x 5.91" (112mm x 150mm)
Environmental	
Operating Temperature	LAN: -4°F ~ 140°F(-20°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices) POE: -4°F ~ 131°F(-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; 90W loading) (A30) -4°F ~ 131°F(-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; 60W loading) (A40)
Storage Temperature	-49°F ~ 185°F(-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing

Ordering Information

- **PER-T481-A10-00**
4-Port Intel GbE LAN PCIe x4 Lane Frame Grabber Card
- **PER-T481-A20-00**
2-Port Intel GbE LAN PCIe x4 Lane Frame Grabber Card
- **PER-T481-A30-00**
4-Port Intel POE PCI-E [x4] Frame Grabber Card
- **PER-T481-A40-00**
2-Port Intel POE PCI-E [x4] Frame Grabber Card



Features

- PCI-Express® [x4] Gen. 3 Compliant
- 1 Independent USB 3.2 Gen 2 Host Controller
- Supports Bandwidth 10 Gb/s for Each Port
- Supports Lockable USB Connector



Specifications

System	
Bus Interface	PCI-Express® [x4], Gen 3 PCI-Express Specification Revision 3.0 at 8GT/s
USB	1 independent USB 3.2 Gen 2 host controllers 900mA @ 5V for each port Compliant with USB 3.2 Gen 2 specification Revision 1.0
USB Connector	2 USB 3.2 Gen 2 Type-A connectors with lockable screw threads
OS Support	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7 (32/64-bit) Linux
Power Supply	
Power Requirement	From PCIe bus
Mechanical	
Dimensions (W x D)	3.94" x 2.8" (100mm x 71mm)
Environmental	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-49°F ~ 185°F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing

Ordering Information

- **PER-T499-A10-00**
2-Port USB 3.2 Gen 2 PCI-E [x4] Frame Grabber Card

PER-T500

2-Port USB 3.2 Gen 1 PCI-E [x1] Frame Grabber Card



Features

- PCI-Express® [x1] Gen. 2 Compliant
- 1 Independent USB 3.2 Gen 1 Host Controller
- Supports Lockable USB Connector

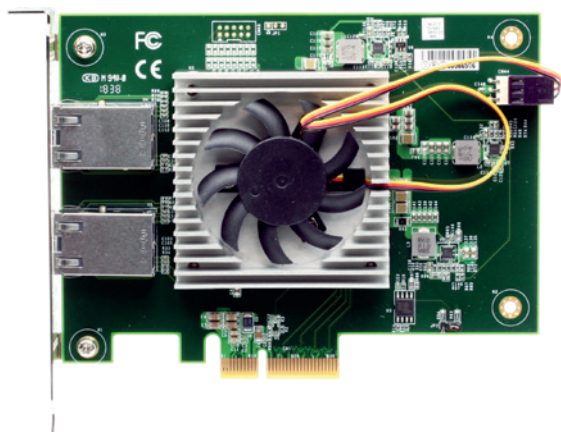


Specifications

System	
Bus Interface	PCI-Express® [x1], Gen 2
USB	1 independent USB 3.2 Gen 1 host controller 900mA @ 5V for each port Compliant with USB 3.2 Gen 1 Specification Revision 1.0
USB Connector	2 USB 3.2 Gen 1 Type-A connectors with lockable screw threads
OS Support	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7(32/64-bit) Linux
Power Supply	
Power Requirement	From PCIe bus
Mechanical	
Dimensions (W x D)	3.07" x 2.8" (78mm x 71mm)
Environmental	
Operating Temperature	32°F ~ 122°F(0°C ~ 50°C)(according to IEC68-2-14 with 0.5 m/s with air-flow ; with industrial devices)
Storage Temperature	-49°F ~ 185°F(-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing

Ordering Information

- **PER-T500-A10-00**
2-Port USB 3.2 Gen 1 PCI-E [x1] Frame Grabber Card



Features

- PCI-Express® [x4] Gen 2 Compliant
- 2 10Gigabit Ethernet Controller, Intel® x550
- Supports CAT-6/6a RJ45 cable
- Supports NBASE-T and 1000BASE-T with CAT-5/ 5e cable
- Supports 15.5 KB Jumbo Frame, NIC teaming and IEEE 1588



Specifications

System	
Bus Interface	PCI-Express® [x4], Gen 2 PCI-Express Specification Revision 2.1 at 5GT/s
USB	—
USB Connector	—
Ethernet	2 Ports 10GbE Ethernet w/ Intel X550 Controller Fully compliant with IEEE 802.3 and IEEE 802.3u Support IEEE 1588 precision time synchronization Support 15.5 KB Jumbo Frame, teaming Support IEEE 802.3 Ethernet interface for 10GBASE-T (IEEE 802.3an) Support NBASE-T (IEEE 802.3bz) and 1000BASE-T (IEEE 802.3ab)
OS Support	Windows® 10(64-bit), Windows® 8.1 (64-bit), Windows® 7(64-bit), Linux 18.04.1
Power Supply	
Power Requirement	Max. 7.84W
Mechanical	
Dimensions (W x D)	3.94" x 5.35" (100mm x 136mm)
Environmental	
Operating Temperature	32°F ~ 140°F(0°C ~ 60°C) (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-49°F ~ 185°F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing

Ordering Information

- **PER-T514-A10-00**
2 Ports Intel® 10GbE LAN PCI-E [x4] Frame Grabber Card

Compact Fanless BOX PC Solutions

04



Front View



Rear View



Features

- Intel® Pentium® N4200 2.5 GHz/ Celeron® N3350 2.4 GHz
- DDR3L 1866 SODIMM x 1, Memory Max. up to 8GB
- COM x 6: RS-232/422/485 x 2 + RS-232 x 4
- USB 3.2 Gen 1 x 4
- VGA + HDMI Output, Support Dual View/ Simultaneous Display
- Supports 2.5" Drive Bay x 1, mSATA
- Supports 8 Channel TTL Level DIO x 1 (Optional)
- AAEON's Hi-Safe Support
- Supports DC 9~24V with Power Protection
- Wide Operating Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- AT/ATX Switch, Remote Power On/Off Switch

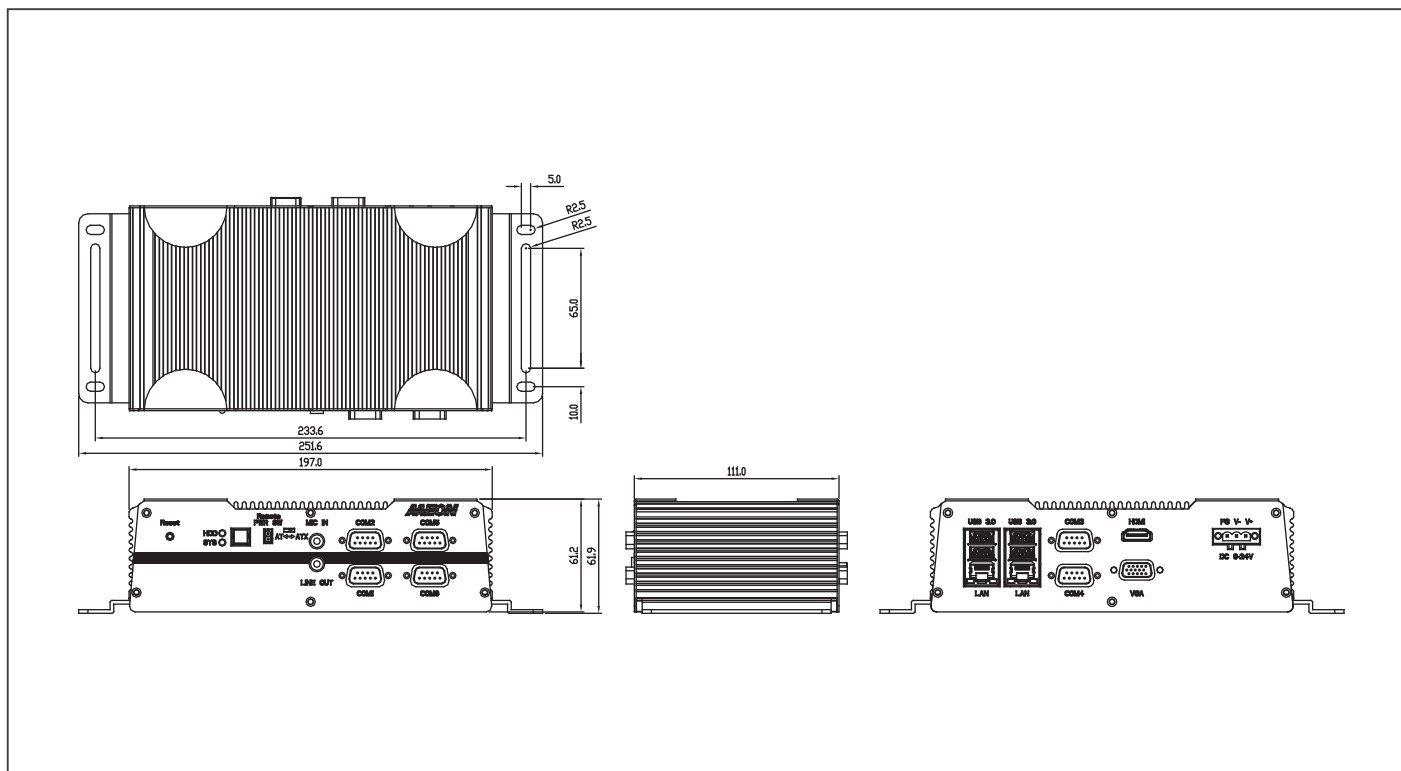


Specifications

System	
CPU	Intel® Pentium® N4200, 2.5 GHz Intel® Celeron® N3350, 2.4 GHz
Chipset	Intel® System on Chip
System memory	DDR3L 1866 SODIMM slot x 1, up to 8GB
Display Interface	HDMI (max. 2048 x 1152) VGA (max. 2048 x 1152)
Storage Device	mSATA, HDD/SSD
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O	RS-232/422/485 x 2 RS-232 x 4 USB 3.2 Gen 1 x 4 VGA x 1 HDMI x 1 LAN x 2 Remote On/Off x 1 Reset Button x 1 AT/ATX DIP Switch Mic-In x 1 Line-Out x 1 Antenna holes x 1 Power button Power input
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (A1:PCI-E + USB, A2: mSATA + USB)
Indicator	Power LED HDD active LED
OS Support	Windows® 10 Windows® 10 IOT Linux
Power Supply	
Power Requirement	9-24V with 3-pin terminal block
Mechanical	
Mounting	Wallmount DIN Rail (Mounting kit is optional)
Dimensions (W x H x D)	7.76" x 2.17" x 4.33" (197mm x 55mm x 110mm)
Gross Weight	6.6 lb (2.8 kg)
Net Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C) with W.T. SSD/HDD/mSATA (according to IEC682-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation - mSATA/SSD 1 Grms/ 5 ~ 500Hz/ operation - HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	PoE	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6616-A1-1010	Intel® Pentium® N4200 2.5 GHz	—	2	—	4	0	4	2	—	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 1	VGA x 1 HDMI x 1	Full-size Minicard x 1 Half-size Minicard x 1	Wallmount Optional Dinrail Optional VESA-Mount	9~24V DC In	-4°F ~ 158°F (-20°C ~ 70°C)
BOXER-6616-A2-1010	Intel® Celeron® N3350 2.4 GHz	—	2	—	4	0	4	2	—	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 1 mSATA x 1	VGA x 1 HDMI x 1	Full-size Minicard x 1 Half-size Minicard x 1	Wallmount Optional Dinrail Optional VESA-Mount	9~24V DC In	-4°F ~ 158°F (-20°C ~ 70°C)

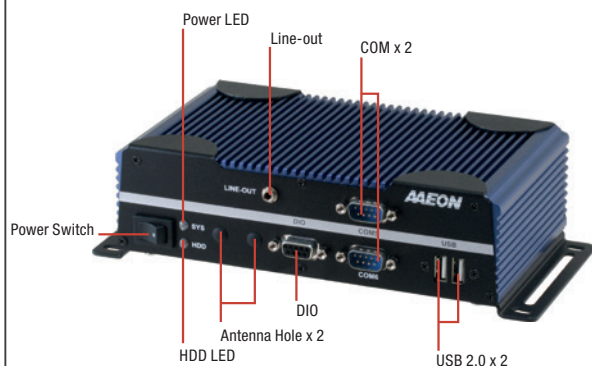
Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- 3 Pin DC-In Power Connector x 1
- BOXER-6616

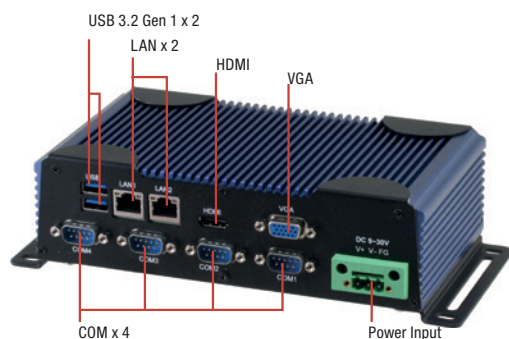
Optional Accessories

- **1255900841**
Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)
- **9741640404**
Din Rail Mount Kit
- **9751640300**
4G (EU) & GPS Module Kit
- **9751640301**
4G (US) & GPS Module Kit
- **9741C50W04**
WiFi 802.11 b/g/n + BT 3.0 Kit

Front View



Rear View



Features

- Intel® Pentium® N3710 1.6 GHz
- 6COMs: RS-232/422/485 x 2 + RS-232 x 4
- USB 3.2 Gen 1 x 2, USB2.0 x 2
- VGA + HDMI Output, Support Dual View/ Simultaneous Display
- Supports 2.5" Drive Bay x 1, mSATA
- Supports 8 Channel DIO x 1
- DDR3L 1600 SODIMM x 1, Memory Max. up to 8 GB
- AAEON's Hi-Safe Support

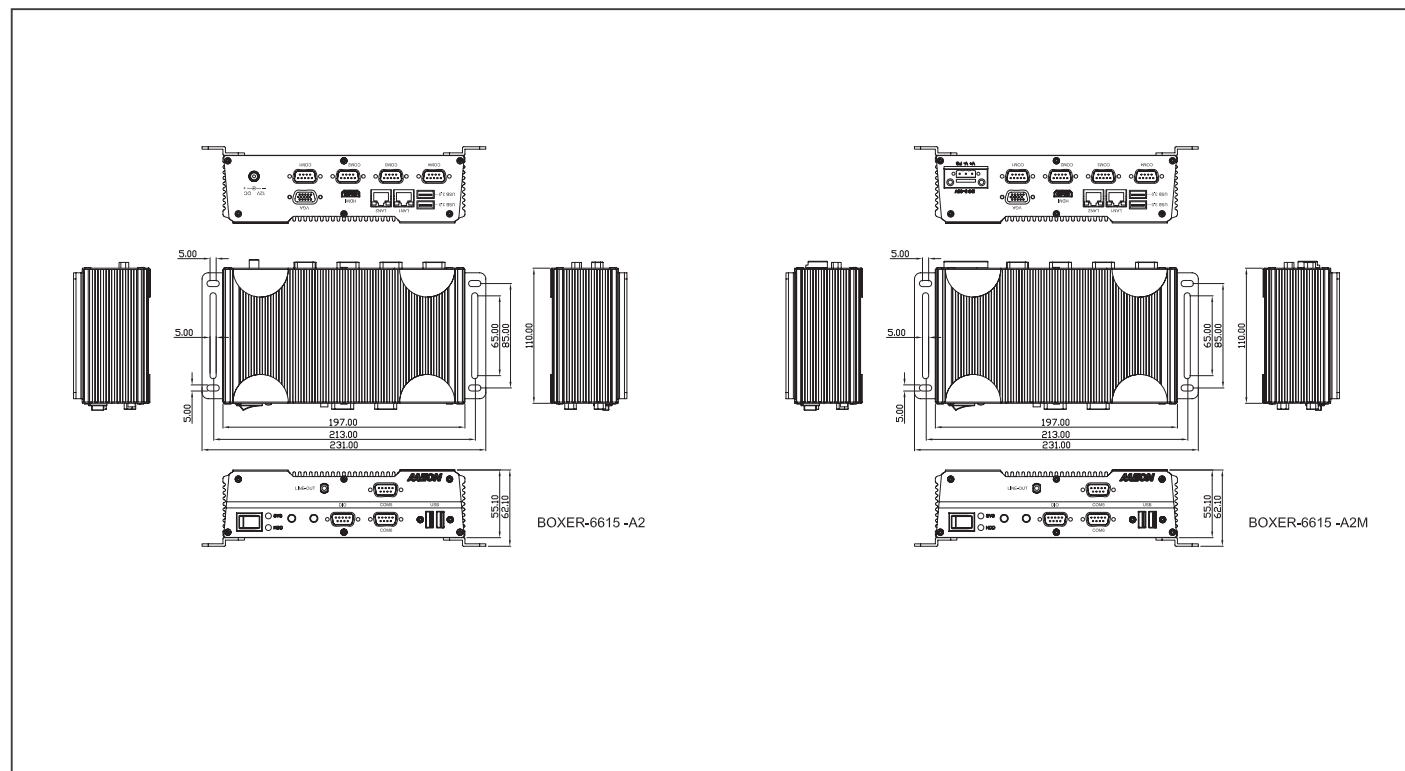


Specifications

System	
CPU	Intel® Pentium® N3710 1.6GHz
Chipset	Intel® System on Chip
System memory	204-pin 1600 DDR3L SODIMM x 1, up to 8GB
Display Interface	VGA, HDMI
Storage Device	mSATA, 2.5" HDD/SSD
Ethernet	Realtek® RTL-8111E, 10/100/1000 Base x2
I/O	RS-232/422/485 x 2 RS-232 x 4 USB 3.2 Gen 1 x 2 USB2.0 x 2 VGA x 1 HDMI x 1 DIO x 1 Line-Out x 1 Antenna holes x 2 Power switch Power input
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (mSATA + USB)
Indicator	Power LED HDD active LED
OS Support	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7 (32/64-bit), WES7/ WES8, Windows® 10 IOT, Linux
Power Supply	
Power Requirement	9 - 30V with 3-pin terminal block, 12V with lockable DC jack
Mechanical	
Mounting	Wallmount DIN Rail (Mounting kit is optional)
Dimensions (W x H x D)	7.76" x 2.17" x 4.33" (197mm x 55mm x 110mm)
Gross Weight	6.6 lb (2.8 kg)
Net Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –mSATA/SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	DIO	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6615-A2-1010	Intel® Pentium® N3710 1.6GHz	—	2	2	2	4	2	8 bit	Line-Out	SATA 2.5" HDD bay x 1 mSATA x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount Din Rail Mounting Kit (Optional)	DC 12V	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14)
BOXER-6615-A2M-1010	Intel® Pentium® N3710 1.6GHz	—	2	2	2	4	2	8 bit	Line-Out	SATA 2.5" HDD bay x 1 mSATA x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount Din Rail Mounting Kit (Optional)	DC 9-30V	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14)

Packing List

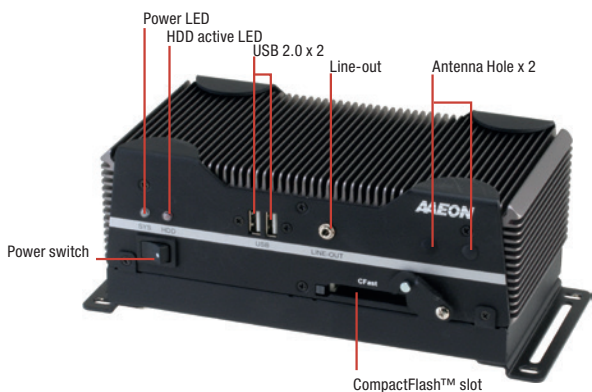
- Wallmount Bracket x 2
- Screw Package x 1
- 3 Pin DC-In Power Connector x 1 (For A2M, DC 9 ~30 V only)
- BOXER-6615

Optional Accessories

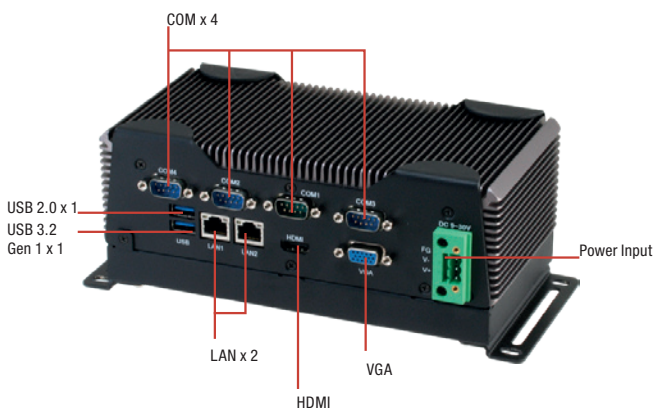
- **125530060A**
DC Jack for 6615-A2, Power Adapter, AC, 100/240V, 12V/5A, 60W, W/ Lock
- **1255900841**
3 pin for 6615-A2M, Power Adapter, AC, 100/240V, 12V/7A, 84W
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741640404**
Din Rail Mount Kit

Fanless Embedded Box PC with Intel® Celeron® J1900 2.0 GHz/ Celeron® N2930 Quad Core 1.83 GHz/
Celeron® N2807 Dual Core 1.58 GHz

Front View



Rear View



Features

- Intel® Celeron® J1900 2.0 GHz/ N2930 Quad Core 1.83 GHz/ Celeron® N2807 Dual Core 1.58 GHz
- Intel® HD Graphics Engine
- DDR3L 1333 MHz SODIMM x 1, Memory up to 8 GB
- Intel® Gigabit Ethernet x 2
- VGA + HDMI Output, Supports Dual View/Simultaneous Display
- RS-232/422/485 x 2, RS-232 x 2, USB 3.2 Gen 1 x 1, USB 2.0 x 3
- Full-size Mini-Card with SIM Card Slot x 1, Half-size Mini-Card x 1 for Factory-Install
- Compact Size & Low Power
- Cost-Effective Design
- Fanless System Design
- AAEON's Hi-Safe Support

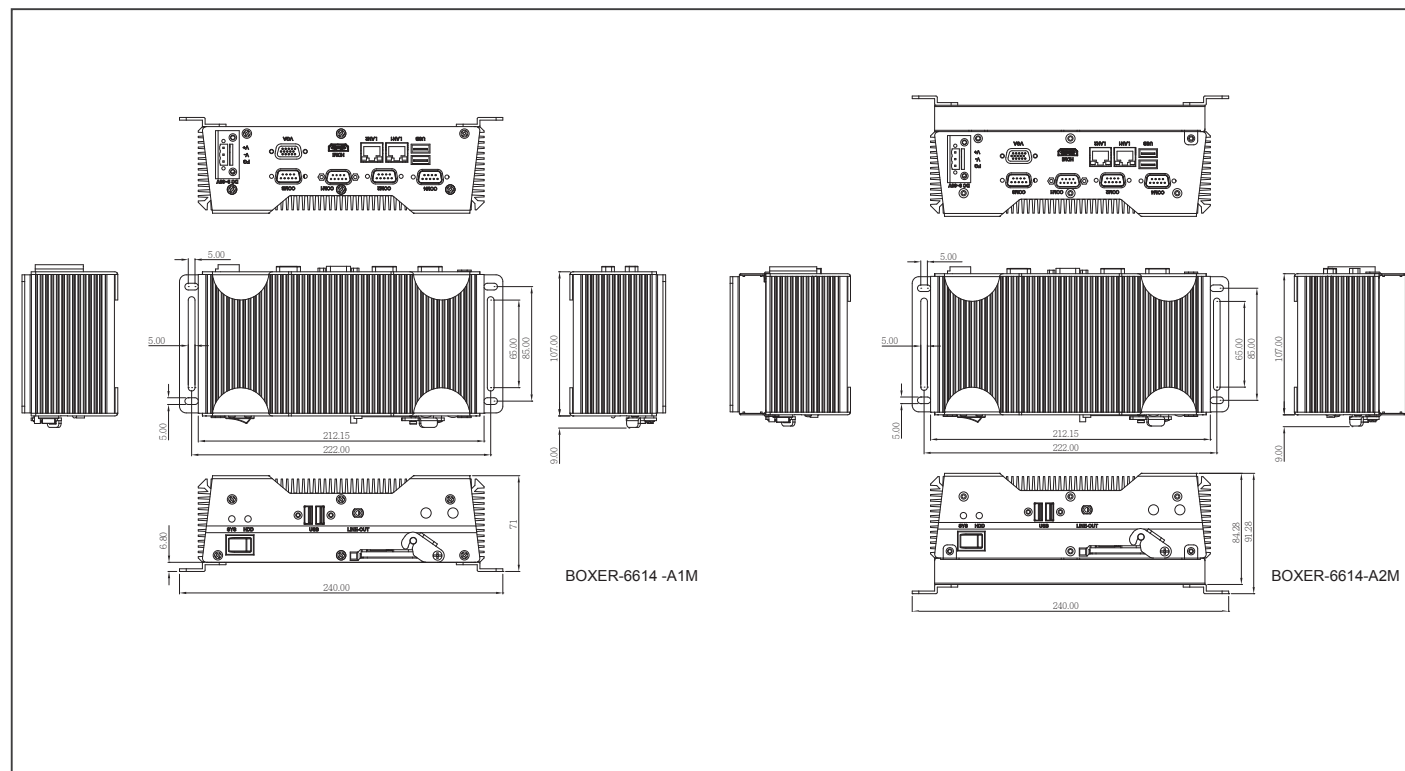


Specifications

System	
CPU	Intel® Celeron™ J1900, 2.0 GHz Intel® Celeron™ N2930, 1.83 GHz Intel® Celeron™ N2807, 1.58GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900/N2930) or 4 GB (N2807)
Display Interface	VGA, HDMI
Storage Device	CFast™, HDD/SSD
Ethernet	Intel® I210/I211, 10/100/1000 Base-TX x 2
I/O	RS-232/422/485 x 2 RS-232 x 2 USB 2.0 x 3 USB 3.2 Gen 1 x 1 VGA x 1 HDMI x 1 Line-out x 1 LAN x 2 CFast slot x 1 Antenna holes x 2 Power switch Power input
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (PCI-E + USB)
Indicator	Power LED HDD active LED
OS support	Windows® 10, Windows® 8.1 (32/64-bit), Windows® 7 (32/64-bit), WES7/WES8, Linux Ubuntu 14.04/ Kernel 3.13.0
Power Supply	
Power Requirement	9 - 30V with 3-pin terminal block, 12V with lockable DC jack
Mechanical	
Mounting	Wallmount DIN Rail (Mounting kit is optional)
Dimensions (W x H x D)	8.35" x 4.21" x 2.53" (212.15mm x 107mm x 64.2mm)
Gross Weight	6.6 lb (2.8 kg)
Net Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with wide temperature CFast™ card -4°F ~ 140°F (-20°C ~ 60°C) with wide temperature HDD (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A, UL

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB	RS-232	RS-232/422/485	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6614-A1-1010	Intel® Celeron® SoC N2930	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap)	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 12V	-20°C~55°C with Wide Temp. CFast(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A1M-1010	Intel® Celeron® SoC N2930	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap)	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 9-30V	-20°C~55°C with Wide Temp. CFast(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A2-1010	Intel® Celeron® SoC N2930	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap) SATA 2.5" HDD bay x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 12V	-20°C~55°C with Wide Temp. CFast(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A2M-1010	Intel® Celeron® SoC N2930	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap) SATA 2.5" HDD bay x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 9-30V	-20°C~60°C with Wide Temp. HDD(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A11M-1010	Intel® Celeron® SoC N2807	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap)	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 9-30V	-20°C~55°C with Wide Temp. CFast(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A12-1010	Intel® Celeron® SoC N2807	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap) SATA 2.5" HDD bay x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 12V	-20°C~55°C with Wide Temp. CFast(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A32-1010	Intel® Celeron® SoC J1900	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap) SATA 2.5" HDD bay x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 12V	-20°C~55°C with Wide Temp. CFast(with 0.5 m/s air flow, according to IEC68-2-14)
BOXER-6614-A32M-1010	Intel® Celeron® SoC J1900	—	2	4	2	2	CFast Socket x 1 (Easy-to-swap) SATA 2.5" HDD bay x 1	VGA x 1 HDMI x 1	Full Size Mini-Card x 1 Half Size Mini-Card x 1	Wallmount/ Din Rail Mounting Kit (Optional)	DC 9-30V	-20°C~60°C with Wide Temp. HDD(with 0.5 m/s air flow, according to IEC68-2-14)

Packing List

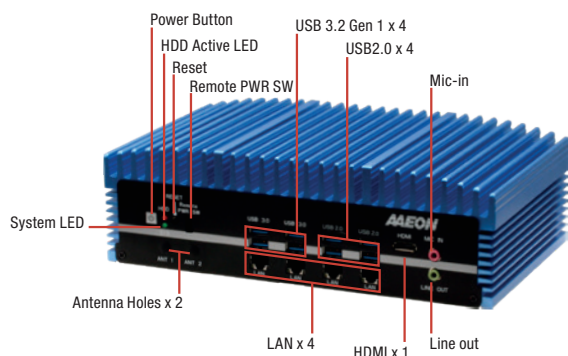
- Wallmount Bracket x 2
- Screw Package x 1
- RAM Thermal Pad x 1 (60mm x 25mm x 3mm) (For A1/A1M the SKU without HDD kit only)
- 3 Pin DC-In Power Connector x 1 (For A1M/A2M, for DC 9 ~30 V only)
- BOXER-6614

Optional Accessories

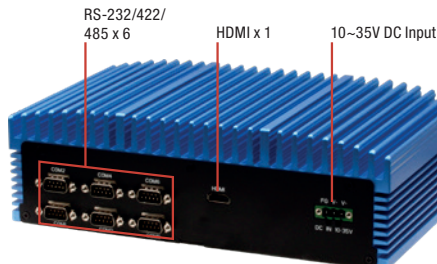
- 125530060A - DC Jack for 6614-A1/A2 Power Adapter, AC, 100/240V, 12V/5A, 60W, W/ Lock, FSP, FSP060-DBAE1
- 1255900841 - 3 pin for 6614-A1M/A2M Power Adapter, AC, 100/240V, 12V/7A, 84W, FSP, FSP084-DMAA1
- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 170203180E Power Cord (Japanese Type)
- 9741681003 Din Rail Mount Kit

BOXER-6641-A1-1010(H310)

Front View

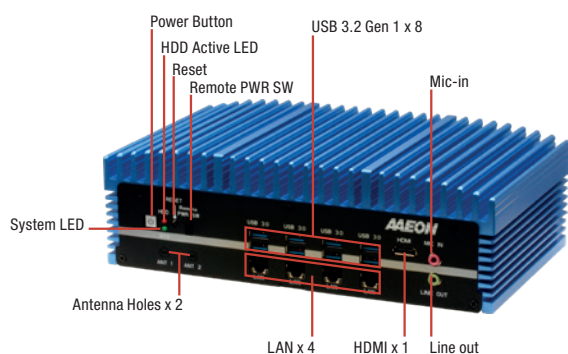


Rear View

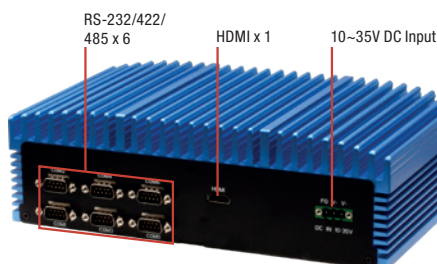


BOXER-6641-A2-1010(C246)

Front View



Rear View



Features

- Extreme Computing Power & Graphic Display Capability
- Desktop Grade Socket Type Core™ - i3/i5/i7/Xeon® (max. TDP up to 71W) Processor
- Supports DDR4 ECC or Non-ECC SODIMM, Up to 64GB
- Supports Intel® GbE LAN x 4 (i211 x 3 + i219 x 1), support iAMT
- Supports HDMI x 2 Dual Display
- Supports USB 3.2 Gen 1 x 8 (C246)
- Supports BIOS Selectable RS-232/422/485 x 6
- Wide Range DC 10~35V Input

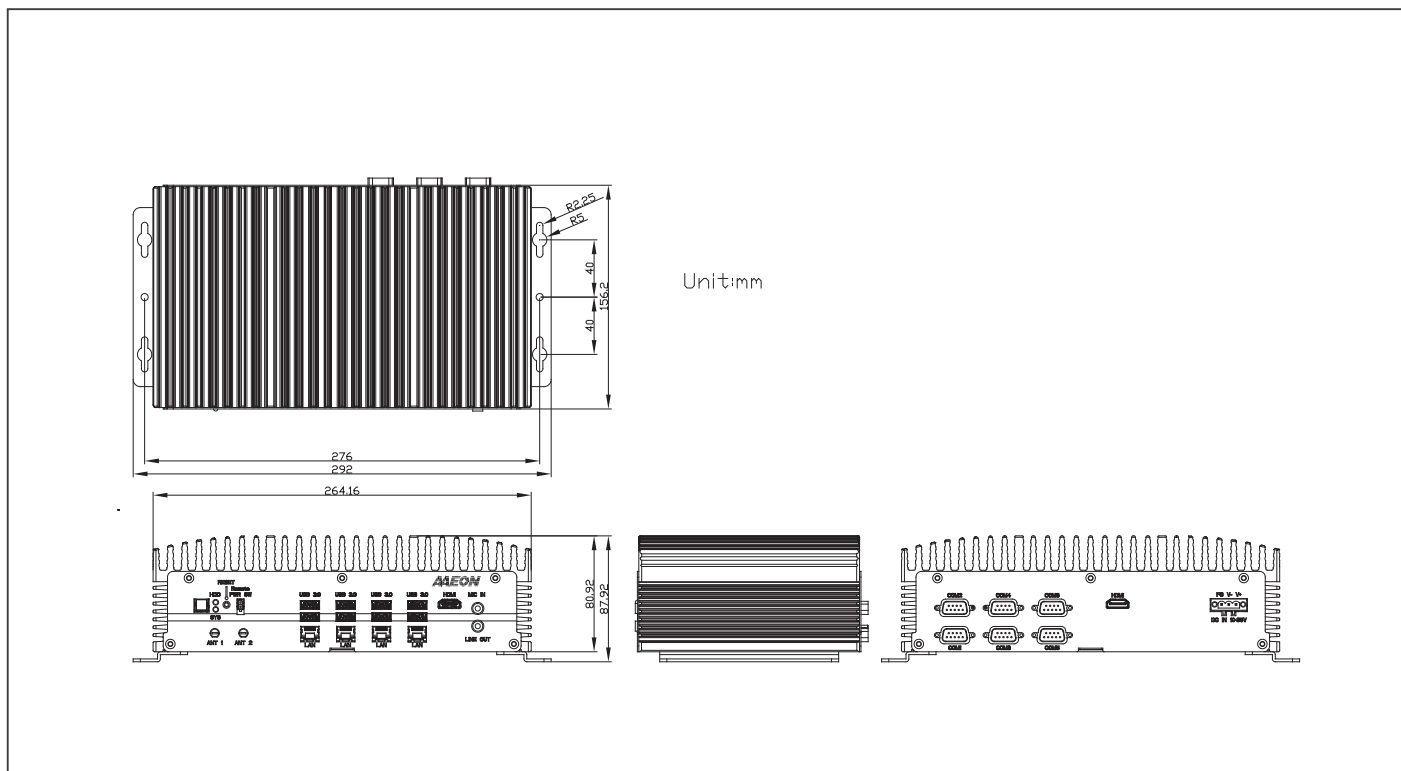


Specifications

System	
CPU	Intel® Xeon® E-2124G Intel® i7-8700T Intel® i5-8500T Intel® i3-8100T Pentium® G5400T Celeron® G4900T
Chipset	Intel® C246/H310
System Memory	DDR4- 2133 SODIMM slot x 2, up to 32GB, ECC or Non-ECC Support
Display Interface	HDMI x 2(C246), HDMI x 2(H310)
Storage Device	2.5" SATA HDD/SSD Bay x 1 (Optional x 2)
Ethernet	Intel® i211 x 3, i219 x 1
I/O	HDMI x 2 RJ-45 x 4 for GbE LAN (i211 x 3, i219 x 1) USB 3.2 Gen 1 x 4, USB2.0 x 4 (H310) USB 3.2 Gen 1 x 8 (C246) DB-9 x 6 for RS-232/422/485 Audio x 1 (MIC-in, Line-out) 3 pin 10~35V Power Input x 1 Power Button x 1 Remote Power switch x 1 Reset Button x 1 HDD LED x 1 SYS LED x 1
Expansion	Full-size Mini card x 2 (w/ SIM Slot x 1, optional for mSATA x 1)
Indicator	HDD LED x 1 SYS LED x 1
OS Support	Windows® 10 64-bit Linux Ubuntu 18.04
Power Supply	
Power Requirement	3-pin DC Input 10~35V
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.4" x 3.19" x 6.15" (264.2mm x 80.92mm x 156.2mm)
Gross Weight	16.4lb (7.0kg)
Net Weight	13.716lb (6.2kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow, with TDP 35W CPU -4°F ~ 113°F (-20°C ~ 45°C) with 0.5 m/s airflow – With Xeon E-2124G CPU (TDP 71W)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	2 Grms/ 5 ~ 500Hz/ operation – SSD/mSATA 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6641-A1-1010(H310)	4	4	3	—	RS-232/422/482 x 6	Mic-in Line-out	Internal 2.5" SATA Drive bay x 1	HDMI x 2	Full-size Mini-Card x 2 SIM x 1	Wallmount	10~35V	-20°C~55°C -20°C~45°C with Xeon E-2124G
BOXER-6641-A2-1010(C246)	4	8	—	—	RS-232/422/482 x 6	Mic-in Line-out	Internal 2.5" SATA Drive bay x 1	HDMI x 2	Full-size Mini-Card x 2 SIM x 1	Wallmount	10~35V	-20°C~55°C -20°C~45°C with Xeon E-2124G

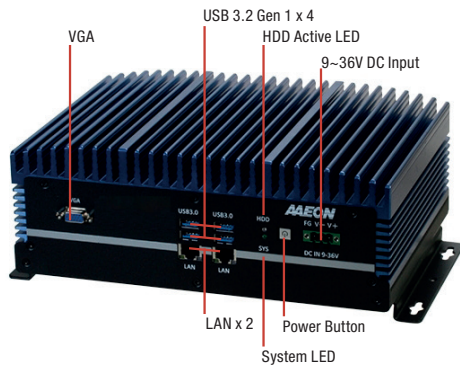
Packing List

- Wallmount Bracket x 2
- 3 Pin DC-In Power Connector x 1
- Screw Package x 1
- BOXER-6641

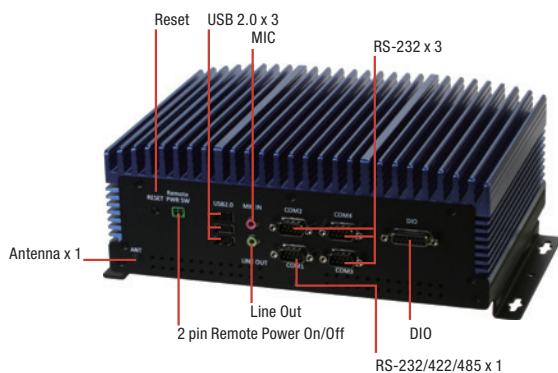
Optional Accessories

- **125590120B**
120W Power Adapter
- **1255302300**
230W Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)

Front View



Rear View



Features

- Extreme Computing Power & Graphic Display Capability
- Desktop Grade Socket Type Processor
- Supports DDR4 ECC or Non-ECC SODIMM, Up to 32GB
- Support VGA x 1
- Supports USB 3.2 Gen 1 x 4
- Supports Intel® GbE LAN x 2
- Wide Range DC 9~36V Input
- 8-bit Digital Input and Output

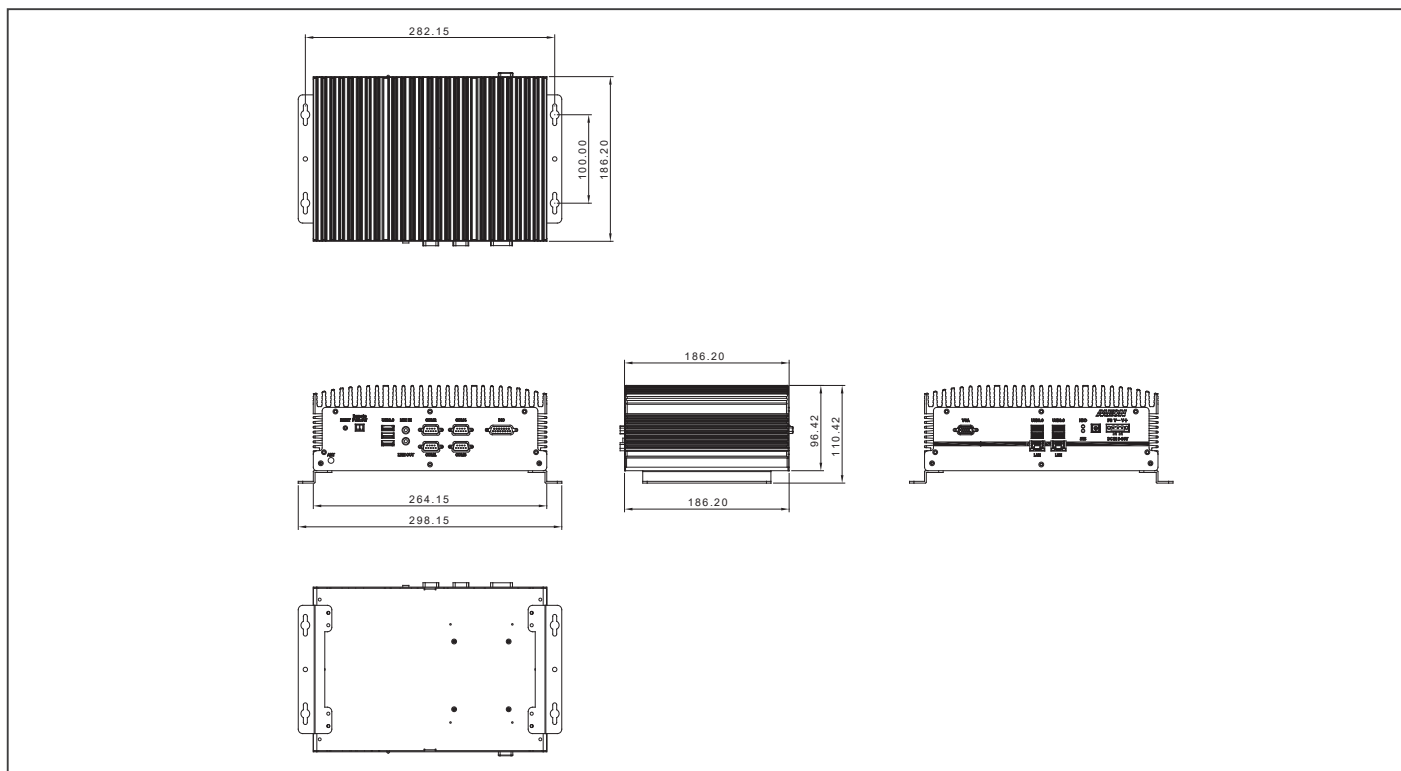


Specifications

System	
CPU	Intel® Core™ i7-7700T, Quad Core, 2.9 GHz Intel® Core™ i5-7600T, Quad Core, 2.8 GHz Intel® Core™ i3-7300T, Dual Core, 3.5 GHz Intel® Core™ i7-6700TE, Quad Core, 2.4 GHz Intel® Core™ i5-6500TE, Quad Core, 2.3 GHz Intel® Core™ i3-6100TE, Dual Core, 2.7 GHz
Chipset	Intel® H110
System Memory	DDR4 SODIMM socket (double deck) x 2 Supports 1866/2133MHz DDR4 and up to 32GB Supports un-buffered and ECC / non-ECC type SODIMM
Display Interface	VGA x 1, HDMI x 2 (Combo DP x 2) - A1 Sku VGA x 1 - A2 Sku
Storage Device	mSATA, SATA HDD/SSD
Ethernet	Intel® I211AT x 1, I219LM x 1
I/O	2 pin Remote power on/off connector Audio x1 (MIC-in, Line-out) USB 2.0 x 3 DB-9 x 3 for RS-232 8-bit DIO DB-9 x 1 for RS-232/422/485 with auto flow control Power ON/OFF switch x 1 3 pin 9~36V DC Power input x 1 (+, -, GND) VGA x 1 HDMI x 2 (Combo DP x 2) USB 3.2 Gen 1 x 4 RJ-45 x 2 for GbE (I211AT x 1, I219LM x 1)
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini-Card x 1 (mSATA + USB) LPC x 1
Indicator	Power LED HDD active LED
OS Support	Windows® 10 64-bit (Kabylake, Skylake CPU) Windows® 8.1 64-bit (Skylake CPU only) Windows® embedded 8 standard 64-bit (Skylake CPU only)
Power Supply	
Power Requirement	3-pin Phoenix DC Input 9~36V
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.39" x 3.8" x 7.33" (264mm x 96.4mm x 186.2mm)
Gross Weight	12.76 lb (5.8 kg)
Net Weight	9.9 lb (4.5 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-49 °F ~ 176 °F (-45°C ~ 80°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Anti-Vibration	2 Grms/ 5 ~ 500Hz/ operation - SSD 1 Grms/ 5 ~ 500Hz/ operation - HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6640-A1-1010	—	—	2	4	3	RS-232: 3 RS-232/422/485: 1	8 bit	MIC-in, Line-out	2.5" SATA Drive bay x 1	VGA x 1 HDMI x 2	Full-size Minicard x 2	Wallmount	9-36V	-4°F ~ 131°F (-20°C ~ 55°C)
BOXER-6640-A2-1010	—	—	2	4	3	RS-232: 3 RS-232/422/485: 1	8 bit	MIC-in, Line-out	2.5" SATA Drive bay x 1	VGA x 1	Full-size Minicard x 2	Wallmount	9-36V	-4°F ~ 131°F (-20°C ~ 55°C)

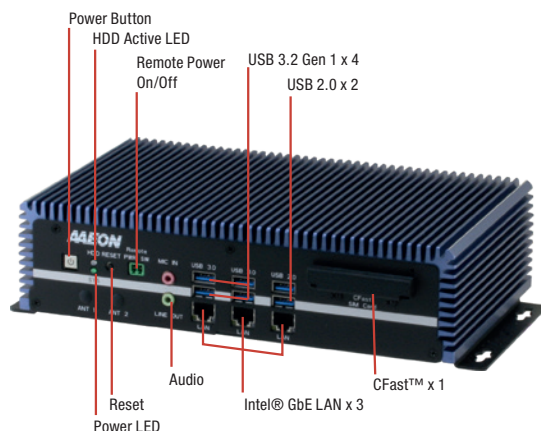
Packing List

- 3 Pin DC-In Power Connector x 1
- 2 Pin Remote on/off Connector
- Thermal Pad
- Wallmount Bracket x 2
- Screw Package x 1
- BOXER-6640

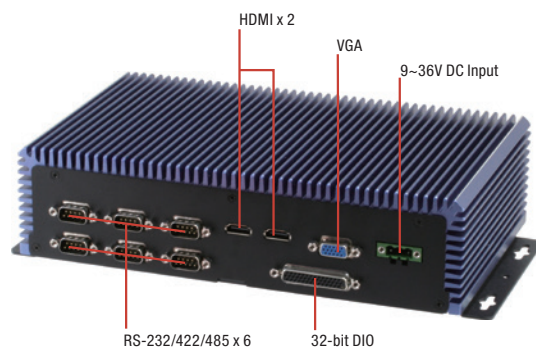
Optional Accessories

- **1255901202**
Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)

Front View



Rear View



Features

- Extreme Computing Power & Graphic Display Capability
- Desktop Grade Socket Type Processor with Longevity Support
- Supports DDR4 ECC or Non-ECC SODIMM, Up to 32GB
- Supports VGA + HDMI x 2 Triple Display, HDMI 4K Display
- Supports USB 3.2 Gen 1 x 4, USB 2.0 x 2
- Supports Industrial-grade Intel® GbE LAN x 3
- Supports BIOS Selectable RS-232/422/485 x 6
- Compact Size and Easy Access Design
- Wide Range DC 9~36V Input
- 34-bit Digital Input and Output

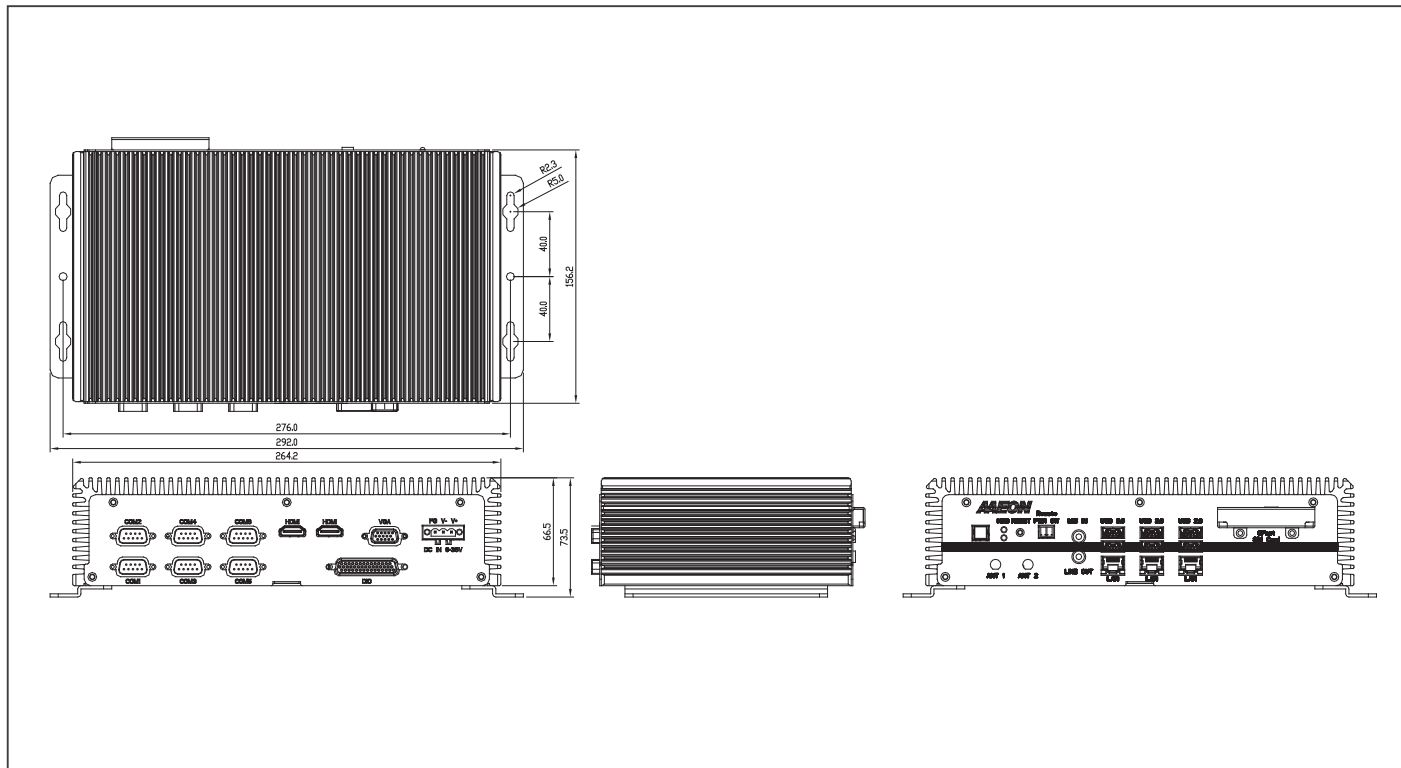


Specifications

System	
CPU	Intel® Core™ i7-7700T, 2.9 GHz Intel® Core™ i5-7500T, 2.7 GHz Intel® Core™ i7-6700TE, 2.4 GHz Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz Intel® Pentium® G4400TE, 2.4 GHz Intel® Celeron® G3900TE, 2.3 GHz
Chipset	Q170
System Memory	DDR4 1866/2133 SODIMM slot x 2, up to 32 GB, ECC or Non-ECC support
Display Interface	VGA, HDMI
Storage Device	CFAST, SATA HDD/SSD (Optional: x2)
Ethernet	Intel® i210, 10/100/1000Base-TX x 3
I/O	RS-232/422/485 x 6 USB 3.2 Gen 1 x 4 USB 2.0 x 2 VGA x 1 HDMI x 2 Line-out x 1 Mic-in x 1 LAN x 3 CFAST slot x 1 SIM slot x 1 Antenna holes x 2 34bit DIO x 1 (A2 & A4 SKU) Power switch Power input Remote power switch Reset Button
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Full-size Mini-Card x 1 (PCI-E + USB, Optional for mSATA and SIM Slot)
Indicator	Power LED HDD active LED
OS support	Windows® 7 (32/64-bit), Windows® 8/8.1 (64-bit), Windows® 10 (64-bit)
Power Supply	
Power Requirement	9 - 36V with 3-pin terminal block
Mechanical	
Mounting	Wallmount, DIN Rail (Mounting Kit is optional)
Dimensions (W x H x D)	10.4" x 2.6" x 6.1" (264.2mm x 66.5mm x 156.2mm)
Gross Weight	7.7 lb (3.5 kg)
Net Weight	6.6 lb (3 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	2 Grms/ 5 ~ 500Hz/ operation - CFAST™ card 1 Grms/ 5 ~ 500Hz/ operation - HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	DIO	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6639-A1-1110	—	—	3	4	2	6	—	Mic-in, Line-out	2.5" SATA Drive bay x 1, CFast™ slot x 1	VGA x 1, HDMI x 2	Full-size Mini-Card x 2	Wallmount	9-36V	-4°F ~ 131°F (-20°C ~ 55°C)
BOXER-6639-A2-1110	—	—	3	4	2	6	34 bit	Mic-in, Line-out	2.5" SATA Drive bay x 1, CFast™ slot x 1	VGA x 1, HDMI x 2	Full-size Mini-Card x 2	Wallmount	9-36V	-4°F ~ 131°F (-20°C ~ 55°C)
BOXER-6639-A3-1010	—	—	3	4	2	6	—	Mic-in, Line-out	2.5" SATA Drive bay x 2, CFast™ slot x 1	VGA x 1, HDMI x 2	Full-size Mini-Card x 2	Wallmount	9-36V	-4°F ~ 131°F (-20°C ~ 55°C)
BOXER-6639-A4-1010	—	—	3	4	2	6	34 bit	Mic-in, Line-out	2.5" SATA Drive bay x 2, CFast™ slot x 1	VGA x 1, HDMI x 2	Full-size Mini-Card x 2	Wallmount	9-36V	-4°F ~ 131°F (-20°C ~ 55°C)

Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- BOXER-6639

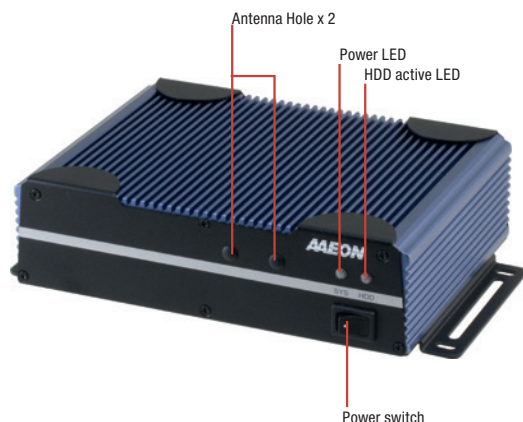
Optional Accessories

- 1255901202
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)
- 9741663902
Din Rail Mount Kit
- 9741663900
I/O Dust Cover Kit. For BOXER-6639 (A1 & A3 sku)

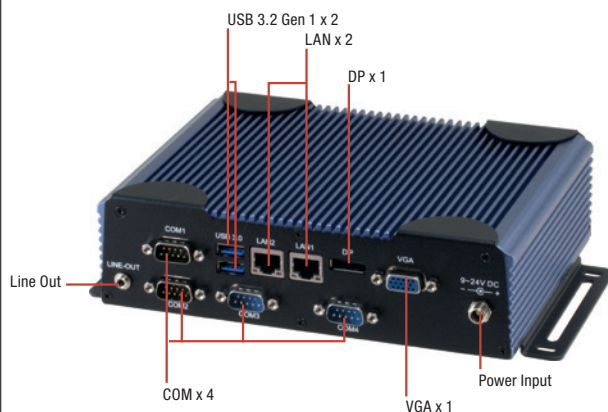
BOXER-6638U

Fanless Embedded Box PC with 5th Generation Intel® Core™ i3 Processor SoC

Front View



Rear View



Features

- U-Series CPU: Intel® Core™ i3-5010U
- Good for Industrial Use with 4 COM Ports
- Wide Temperature Support: -4°F ~ 140°F (-20°C ~ 60°C)
- Wide Voltage Support: 9 - 24 V

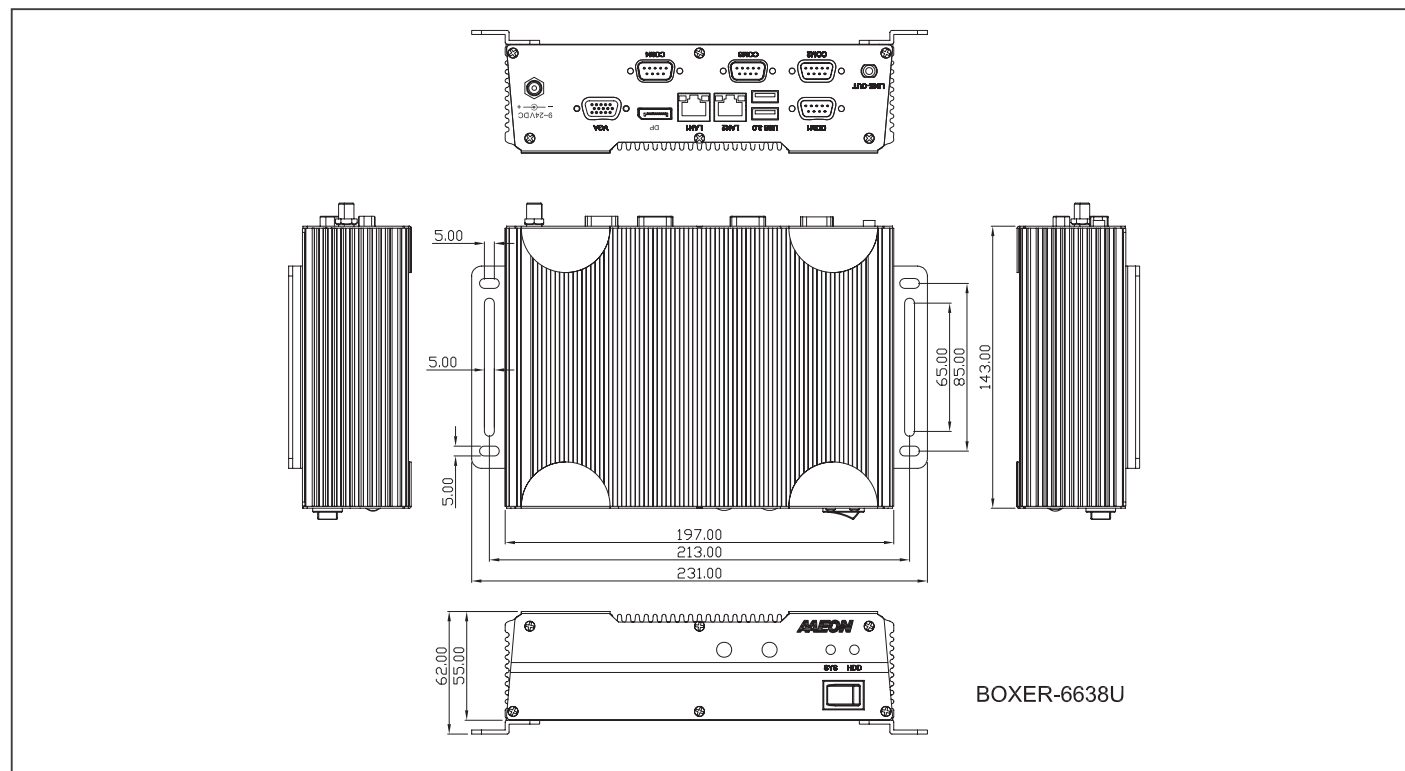


Specifications

System	
CPU	5th Generation Intel® Core™ i3-5010U, 2.1 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1600 SODIMM slot x 1, up to 8 GB
Display Interface	VGA, DP
Storage Device	mSATA, HDD/SSD
Ethernet	Intel® WGI211AT, 10/100/1000 Base-TX x 1 Intel® WGI218LM, 10/100/1000 Base-TX x 1
I/O	RS-232/422/485 x 2 RS-232 x 2 USB 2.0 x 2 (A2M) USB 3.2 Gen 1 x 2 VGA x 1 DP x 1 Line-out x 1 LAN x 2 Antenna holes x 2 Power switch Power input
Expansion	Full-size Mini-Card x 1 (mSATA + USB, w/ SIM slot, optional for PCI-E) Half-size Mini-Card x 1 (PCI-E + USB)
Indicator	Power LED HDD active LED
OS support	Windows® 10 (64-bit), Windows® 8.1(32/64-bit), Windows® 7 (32/64-bit), Linux Ubuntu 14.10
Power Supply	
Power Requirement	9 - 24V with lockable DC jack
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	7.76" x 2.17" x 5.63" (197mm x 55mm x 143mm)
Gross Weight	5.5 lb (2.5 kg)
Net Weight	3.3 lb (1.5 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with wide temperature HDD (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –mSATA / SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB	RS-232	RS-232/422/485	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6638U-A2M-1010	Intel® Core i3-5010U	—	2	4	2	2	HDD/SSD	VGA x 1 DP x 1	Full-size Mini-Card x 1 Half-size Mini-Card x 1	Wallmount	DC 9-24V	-4°F ~ 140°F (-20°C ~ 60°C) According to IEC60068-2, 0.5m/s air flow

Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- BOXER-6638U

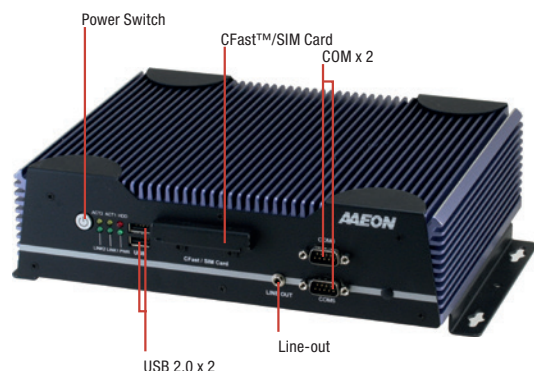
Optional Accessories

- **1255300607**
Power Adapter, AC, 60W
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe Type)
- **170203180E**
Power Cord (Japan Type)
- **9741681003**
Din Rail Mount Kit

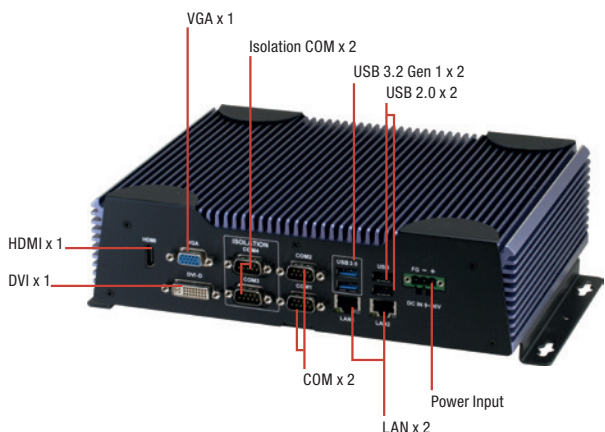
BOXER-6652

Fanless Embedded Box PC with Intel® QM87 Chipset

Front View



Rear View



Features

- Cable-less Design
- Intel® Core™ i5-4402E (2.7 GHz)
- Mini-Card Slot x 2 (USB & PCI-E Signal)
- Isolated RS-232/422/485 x 2

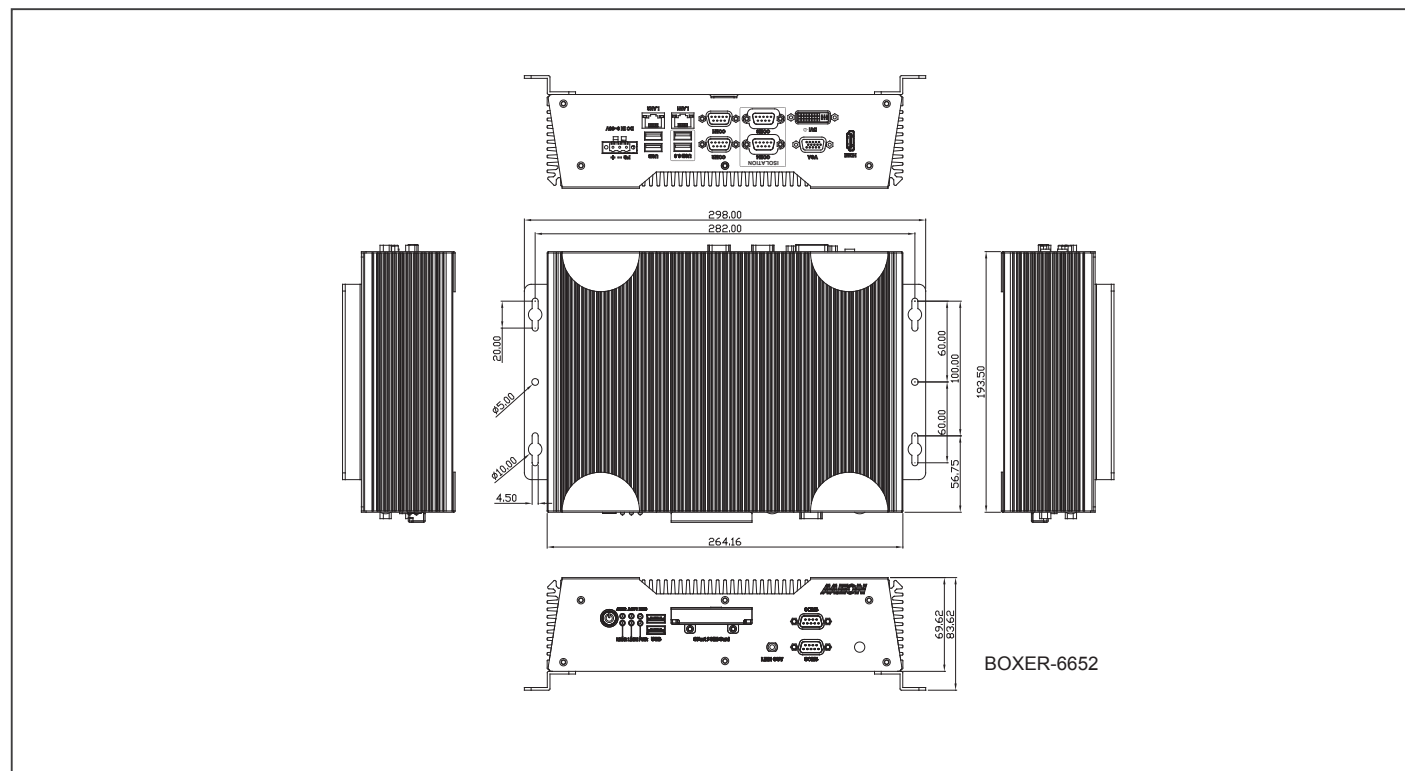


Specifications

System	
CPU	Intel® Core™ i5-4402E, 2.7 GHz
Chipset	Intel® QM87
System Memory	DDR3L 1333/1600 SODIMM slot x 1, up to 8 GB
Display Interface	VGA, HDMI, DVI-D
Storage Device	CFAST™, HDD/SSD
Ethernet	Intel® i211, 10/100/1000 Base-TX x 1 Intel® i217LM, 10/100/1000 Base-TX x 1
I/O	Isolated RS-232/422/85 x 2 RS-232 x 4 USB 2.0 x 4 USB 3.2 Gen 1 x 2 VGA x 1 HDMI x 1 DVI x 1 Line-out x 1 LAN x 2 CFAST slot x 1 Antenna holes x 2 Power switch Power input
Expansion	Full-size Mini-Card x 1 (PCI-E + USB, w/ SIM slot) Half-size Mini-Card x 1 (PCI-E + USB)
Indicator	Power LED HDD active LED LAN LED
OS support	Windows® 7, Windows® 8/8.1, Windows® 10, Linux Fedora
Power Supply	
Power Requirement	9 ~ 30V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.4" x 2.74" x 7.62" (264.16mm x 69.62mm x 193.5mm)
Gross Weight	12.1 lb (5.5 kg)
Net Weight	7.7 lb (3.5 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with wide temperature HDD (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –mSATA / SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485 with isolation	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6652-A1-1010	i5-4402E	—	2	2	4	4	2	Line-out x 1	CFast slot x 1 2.5" HDD bay x 1	DVI-D x 1, VGA x 1, HDMI x 1	Full-size Mini-Card x 1 Half-size Mini-Card x 1	Wallmount Desktop	DC 9 ~ 30V	-4°F ~ 140°F (-20°C ~ 60°C) according to IEC60068-2, 0.5m/s air flow

Packing List

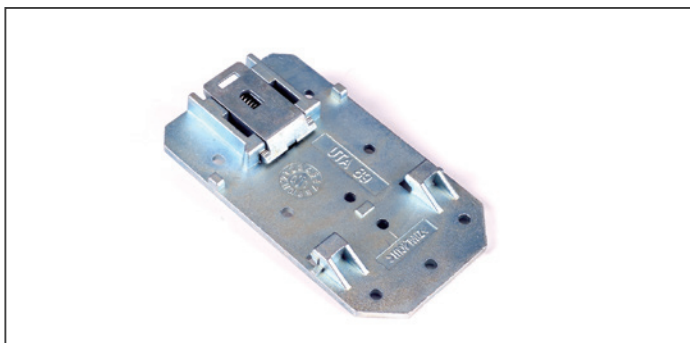
- Wallmount Bracket
- Screw Package
- RAM Thermal Pad
- Phoenix Power Connector
- BOXER-6652

Optional Accessories

- **1255900841**
Power adapter, DC12V,7A,84W,3p phoenix
- **1702031803**
Power Cord (European Type)
- **1702031802**
Power Cord (US Type)
- **170203180E**
Power Cord (Japanese Type)

9741681003

DIN Rail Mounting Kit



Features

- Universal Patented Spring Lock Design
- DIN Rail: NS 35/7.5, NS 35/15
- For AEC-6612/6613, BOXER-6614

Ordering Information

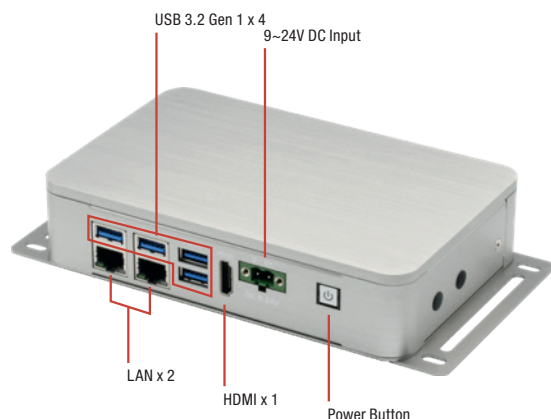
- 9741681003
DIN Rail Mounting Kit

05

Ultra Slim Fanless BOX PC Solutions



Front View



Rear View



Features

- Slim Design: Min. height 37mm
- Designed for Embedded Automation Controller
- Gigabit Ethernet x 2, USB x 4
- 2G DDR3L On-board
- eMMC On-board, up to 32G
- Operate in -20 °C ~ 50 °C environment

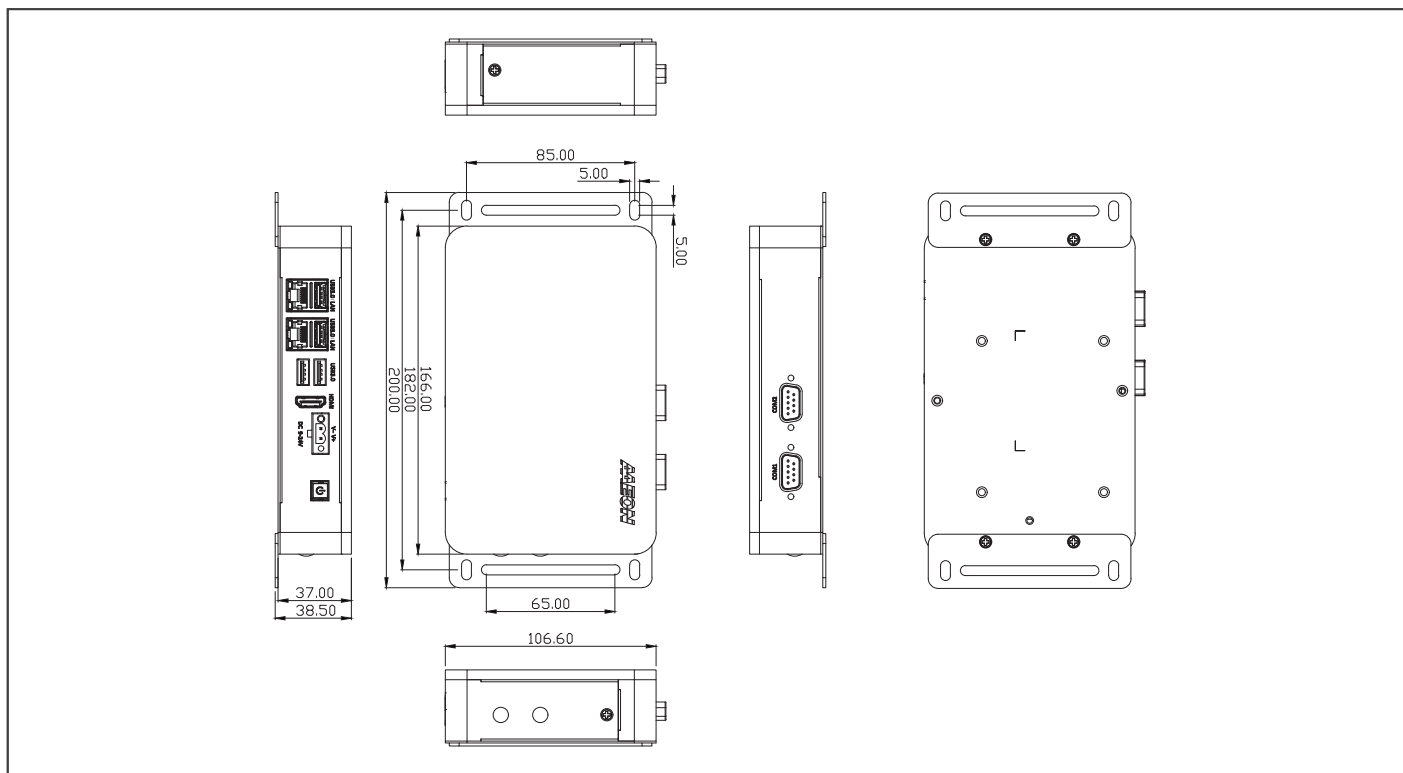


Specifications

System	
CPU	Intel® Pentium® N4200 Intel® Celeron® N3350
Chipset	Intel® System on Chip
System Memory	DDR3L 2G 1600 Onboard
Display Interface	HDMI
Storage Device	16 or 32G eMMC Onboard
Ethernet	RJ-45 x 2 for 10/100/1000 Base-TX (Intel® i211)
I/O	LAN x 2 USB 3.2 Gen 1 x 4 HDMI x 1 DB9 x 2 for RS-232 2-pin 9~24V DC Power Input x 1 Power Button x 1
Expansion	Full-size Minicard x 1 (PCIe/USB) Half-size Minicard x 1 (PCIe/USB, Optional for mSATA)
Indicator	Power LED on Power Button
OS Support	Windows® 10 Windows® 10 IoT Linux Ubuntu 16.04.4
Power Supply	
Power Requirement	9 - 24V with 2-pin Phoenix connector
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.54" x 4.2" x 1.45" (166mm x 106.6mm x 37mm)
Gross Weight	3.6 lb (1.6kg)
Net Weight	1.76 lb (0.8 kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-40°F ~ 158°F (-40°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6405U-A2-1010	N3350	SoC	2G	2	4	—	2	—	—	—	32G eMMC	HDMI x 1	Full-size Minicard x 1 Half-size Minicard x1	Wallmount	9~24V	-20°C ~ 50°C
BOXER-6405U-A3-1010	N4200	SoC	2G	2	4	—	2	—	—	—	32G eMMC	HDMI x 1	Full-size Minicard x 1 Half-size Minicard x1	Wallmount	9~24V	-20°C ~ 50°C

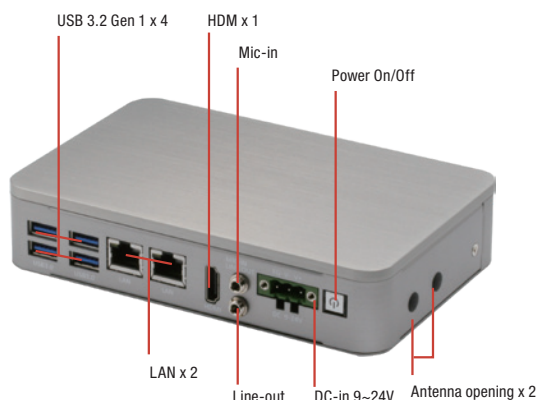
Packing List

- Wall Mount Bracket x 1
- Screw Package x 1
- 2 Pin DC-In Power Connector x 1
- BOXER-6405U

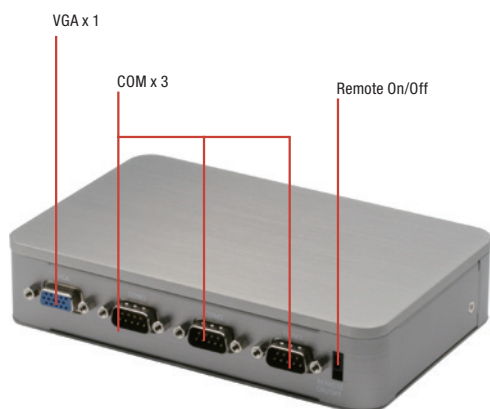
Optional Accessories

- 1255300403/1255X00004
Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

Front View

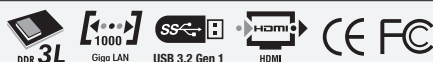


Rear View



Features

- Slim Boxer Design: 37mm
- Rich I/O, Design for Auto System Control
- Wide Operating Temperature -30°C ~ 60°C
- Gigabit Ethernet x 2, USB x 4
- Support Wallmount

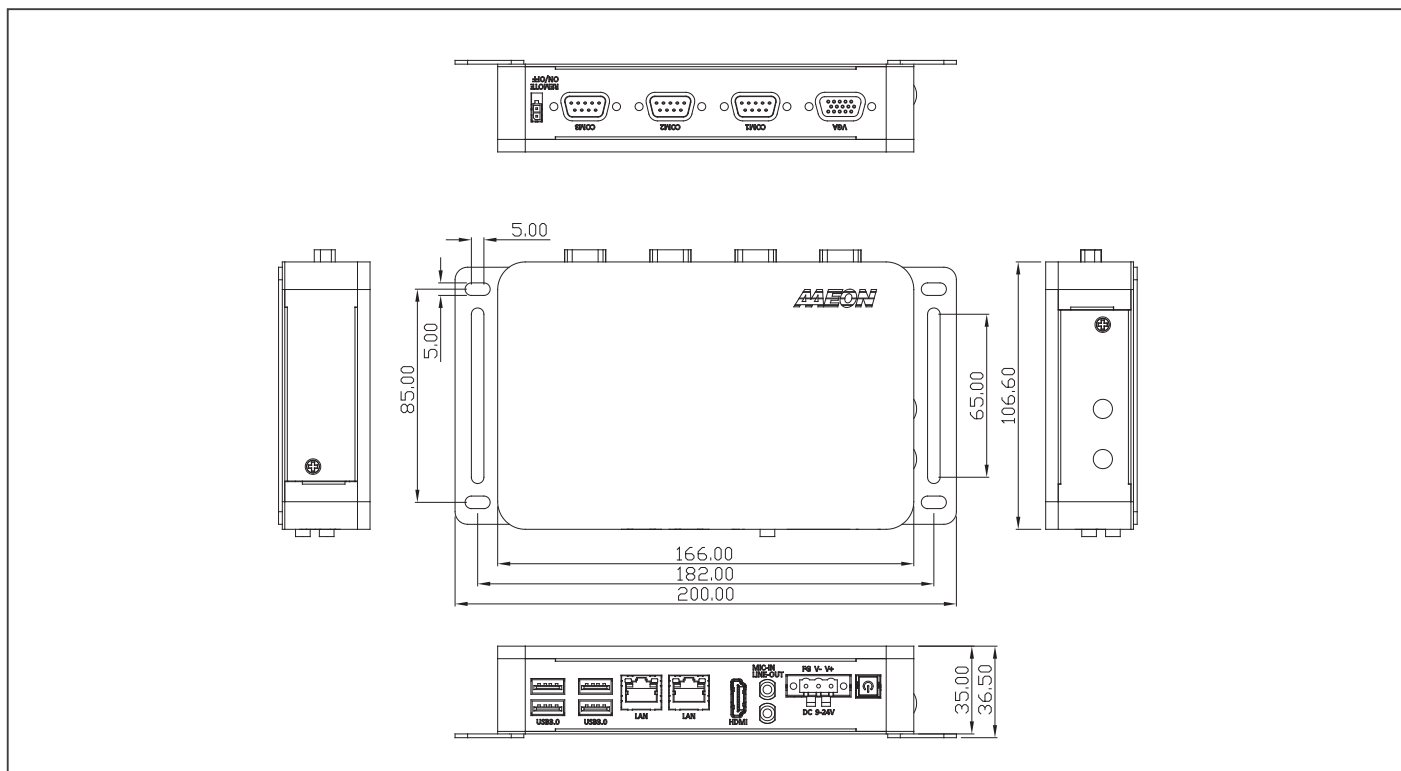


Specifications

System	
CPU	Intel® Celeron/Pentium™ processor
Chipset	Intel® System on Chip
System Memory	DDR3L SODIMM slot x 1 Supports 1867 MHz and up to 8GB
Display Interface	HDMI (max. 1920 x 1080)
Storage Device	mSATA
Ethernet	Intel® i211-AT x 2
I/O	Power Button x 1 USB Type A x 4 for USB 3.2 Gen 1 HDMI type A x 1 for HDMI v1.4b RJ-45 x 2 for GbE LAN with LED indicator (i211-AT x 2) Power input x 1 3-pin terminal block in default (+, -, GND) Co-layout 3-pin terminal block & lockable DC-in jack.) Co-layout internal DC Mic-in x 1, Line-out x 1 RS-232/422/485 x 3 with automatic flow control (switch by BIOS) VGA x 1 Remote On/Off Antenna opening x 2 DC-in 3-pin terminal block(9~24V) x 1
Expansion	Full-size Mini PCIe slot x 1 (PCIe/USB/SIM slot), one screw Half-size Minicard slot x 1 (mSATA only)
Indicator	Power LED x1, HDD active LED x1
OS Support	Windows® 10, Windows® 10 IoT, Linux
Power Supply	
Power Requirement	9-24V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	6.54" x 4.2" x 1.45" (166mm x 106.6mm x 37mm)
Gross Weight	3.6 lb (1.6kg)
Net Weight	1.76 lb (0.8 kg)
Environmental	
Operating Temperature	-22°F ~ 140°F (-30°C ~ 60°C) with W.T. mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial decives)
Storage Temperature	-22°F ~ 140°F (-30°C ~ 60°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – mSATA 1 Grms/ 5 ~ 500Hz/ operation - HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6405-A1-1010	N3350	SoC	—	2	4	—	—	3	—	MIC-in, Line-out	mSATA x 1	VGA/ HDMI x1	Full-size Minicard x 1 Half-size Minicard x 1	Wallmount	9~24V	-30°C ~ 60°C
BOXER-6405-A2-1010	N4200	SoC	—	2	4	—	—	3	—	MIC-in, Line-out	mSATA x 1	VGA/ HDMI x1	Full-size Minicard x 1 Half-size Minicard x 1	Wallmount	9~24V	-30°C ~ 60°C

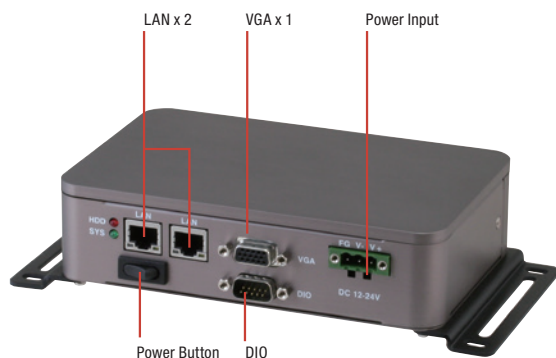
Packing List

- Wallmount Bracket x 2
- 3 Pin DC-In Power Connector x 1
- BOXER-6405

Optional Accessories

- 125530040F
Power Adapter
- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 9741238H00
WiFi Module & Antenna
- 9741EC20E0
4G Module & Antenna (for Europe)
- 9741640404
Din Rail Mount Kit

Front View



Rear View



Features

- Dual GbE LAN Port for Industrial Network Appliance
- 2.5" HDD/SDD Bay x 1
- USB 3.2 Gen 1 Port Connectivity
- 8-bit Programmable Digital Input/Output
- 12 ~ 24V DC-in Support

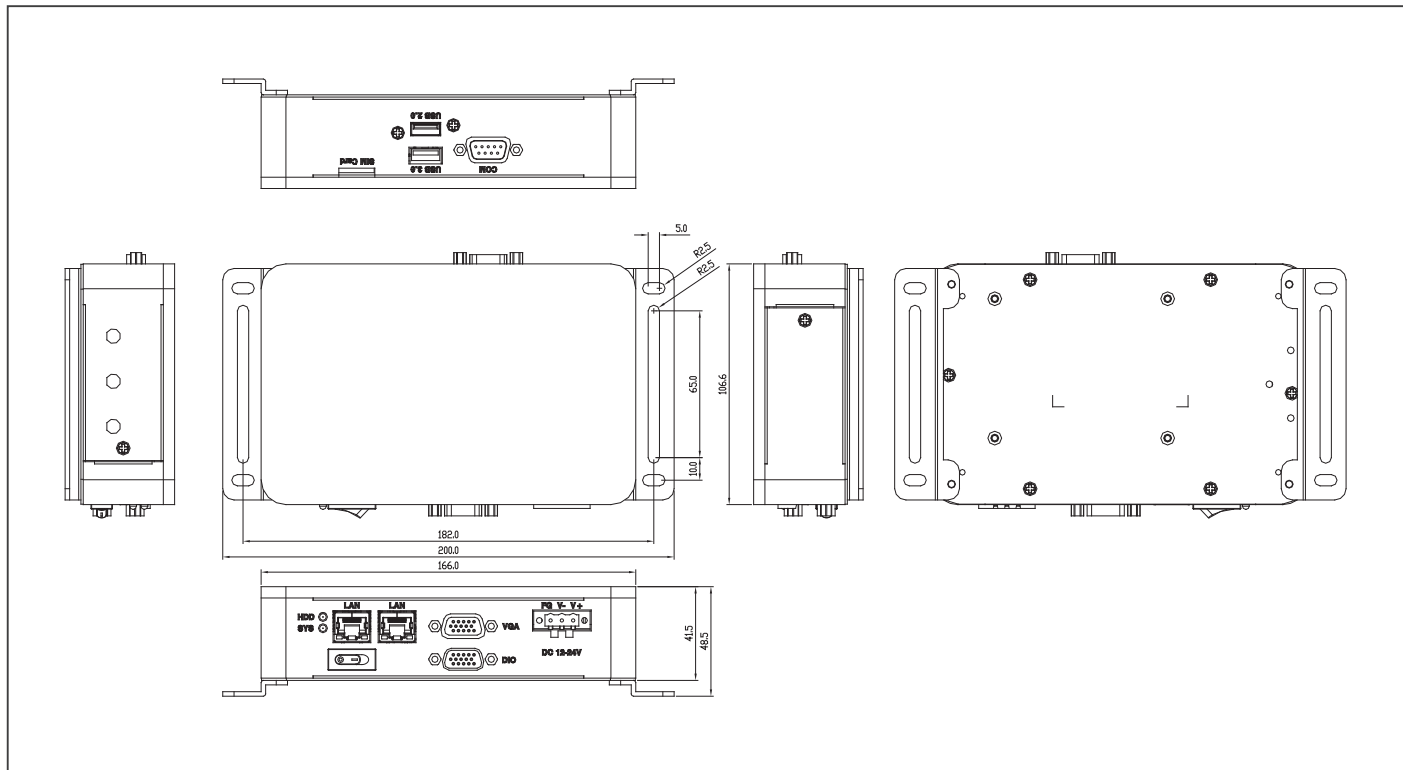


Specifications

System	
CPU	Intel® Celeron™ J1900, 2.0 GHz Intel® Celeron™ N2807, 1.58 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900) or 4 GB (N2807)
Display Interface	VGA
Storage Device	mSATA, HDD/SSD
Ethernet	Realtek® RTL8111E-VL-CG, 10/100/1000Base-TX x 2
I/O	RS-232 x 1 USB 2.0 x 1 USB 3.2 Gen 1 x 1 VGA x 1 LAN x 2 Digital I/O x 8 bit Antenna holes x 3 Power switch Power input
Expansion	Full-size Mini-Card x 1 Half Mini-Card x 1 (for mSATA) SIM card slot x 1
Indicator	Power LED HDD active LED
OS support	Windows® 10, Windows® 8.1, Windows® 7, Windows® Embedded 8, Windows® Embedded 7, Linux Fedora
Power Supply	
Power Requirement	12 - 24V with 3-pin terminal block
Mechanical	
Mounting	Wallmount VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)
Dimensions (W x H x D)	6.53" x 4.20" x 1.63" (166 mm x 106.6 mm x 41.5 mm)
Gross Weight	3.6 lb (1.6 kg)
Net Weight	1.76 lb (0.8 kg)
Environmental	
Operating Temperature	-13°F ~ 140°F (-25°C ~ 60°C) with wide temperature HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-22°F ~ 176°F (-30°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation -mSATA
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	Digital I/O	Storage	Display	Expansion	Mounting	Power	Operation Temp.
BOXER-6404U-A1-1010	Intel® J1900	—	2	1	1	1	8 bit	2.5" Drive Bay x 1, Half-size mSATA bay x 1	VGA x 1	Full-size Minicard x 1, Half-size Minicard x 1	Wallmount/Din Rail/ VESA 75	DC in 12~24V	-13°F ~ 140°F (-25°C ~ 60°C)
BOXER-6404U-A2-1010	Intel® N2807	—	2	1	1	1	8 bit	2.5" Drive Bay x 1, Half-size mSATA bay x 1	VGA x 1	Full-size Minicard x 1, Half-size Minicard x 1	Wallmount/Din Rail/ VESA 75	DC in 12~24V	-13°F ~ 140°F (-25°C ~ 60°C)

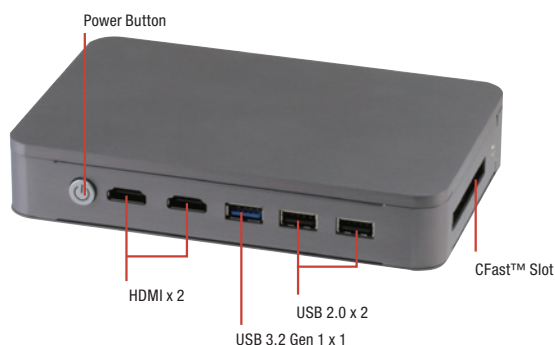
Packing List

- **Wallmount Bracket x 2**
- **Phoenix Power Connector x 1**
- **BOXER-6404U**

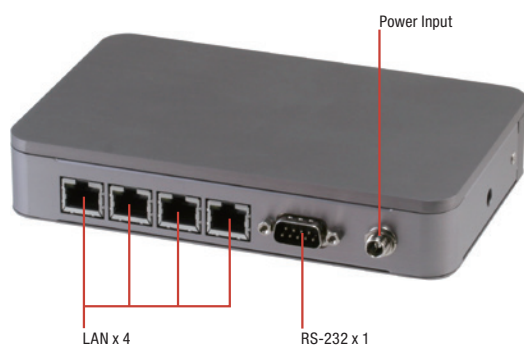
Optional Accessories

- **125530040F**
Power Adapter
- **1702031802**
Power Cord (US type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741238H00**
WiFi Module & Antenna
- **9741EC20E0**
4G Module & Antenna (for Europe)
- **9741640403**
VESA Mount Kit
- **9741640404**
Din rail Mount Kit

Front View



Rear View



Features

- Slim Boxer Design: 30mm
- RJ-45 LAN Port x 4, HDMI Port x 2
- Operating in -22°F ~ 149°F (-30°C ~ 65°C) Environment

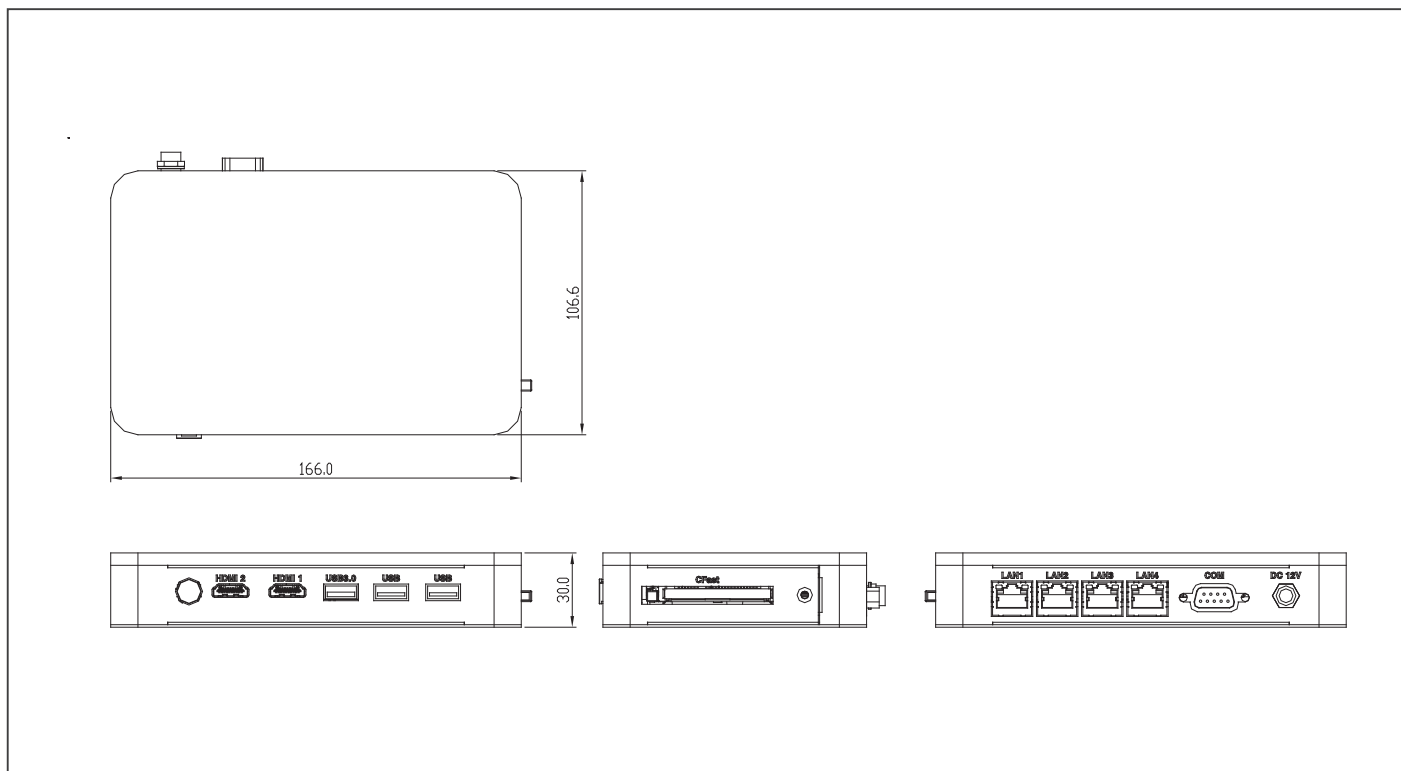


Specifications

System	
CPU	Intel® Celeron™ J1900, 2.0 GHz Intel® Celeron™ N2807, 1.58 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900) or 4 GB (N2807)
Display Interface	HDMI (max. 1920 x 1080)
Storage Device	CFast™
Ethernet	Intel® I211, 10/100/1000Base-TX x 4
I/O	RS-232 x 1 USB 2.0 x 2 USB 3.2 Gen 1 x 1 HDMI x 2 LAN x 4 CFast slot x 1 Antenna holes x 1 Power button Power input
Expansion	Full-size Mini-Card (USB interface only) x 1
Indicator	Power LED on power button
OS support	Windows® 10, Windows® 8.1, Windows® 7, Windows® Embedded 8, Windows® Embedded 7, Linux Fedora
Power Supply	
Power Requirement	12V with lockable DC jack
Mechanical	
Mounting	VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)
Dimensions (W x H x D)	6.53" x 4.20" x 1.18" (166 mm x 106.6 mm x 30 mm)
Gross Weight	2.9 lb (1.3 kg)
Net Weight	1.9 lb (0.86 kg)
Environmental	
Operating Temperature	-22°F ~ 149°F (-30°C ~ 65°C) with wide temperature CFast™ card (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-22°F ~ 176°F (-30°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –CFast™ card
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	Display	USB 3.2 Gen 1	USB 2.0	RS-232	Storage	Expansion	Power	Operating Temp.
BOXER-6404-A1-1110	Intel® J1900	Up to 8 GB	4	HDMI x 2	1	2	1	CFAST™	Mini-Card x 1 (USB Interface)	12V DC in	-30 ~ 65°C with 0.5 m/s airflow
BOXER-6404-A2-1110	Intel® J1900	Up to 8 GB	2	HDMI x 1	1	2	1	CFAST™	Mini-Card x 1 (USB Interface)	12V DC in	-30 ~ 65°C with 0.5 m/s airflow
BOXER-6404-A3-1110	Intel® N2807	Up to 4 GB	4	HDMI x 2	1	2	1	CFAST™	Mini-Card x 1 (USB Interface)	12V DC in	-30 ~ 65°C with 0.5 m/s airflow
BOXER-6404-A4-1110	Intel® N2807	Up to 4 GB	2	HDMI x 1	1	2	1	CFAST™	Mini-Card x 1 (USB Interface)	12V DC in	-30 ~ 65°C with 0.5 m/s airflow

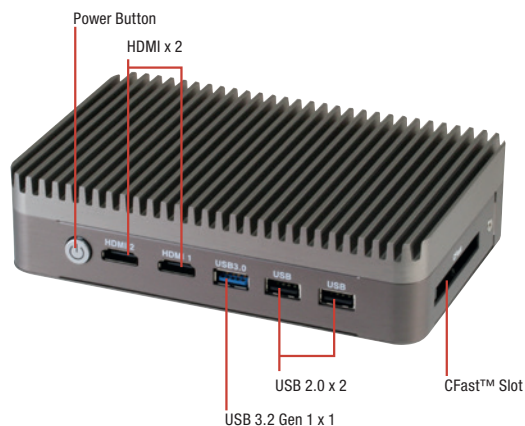
Packing List

- 125530040C
Power Adapter
- BOXER-6404

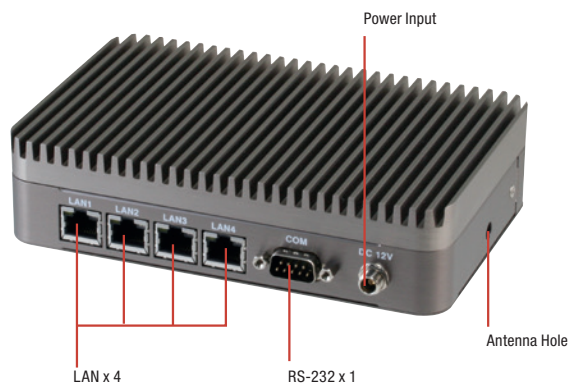
Optional Accessories

- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 9751640401
WiFi Module & Antenna
- 9741EC20E1
4G Module & Antenna (For Europe)
- 9741640400
VESA Mount Kit
- 9741640401
DIN Rail Mount Kit
- 9741640402
CFAST™ Cover Kit

Front View



Rear View



Features

- Quad GbE LAN Port for Industrial Network Appliance
- Dual HDMI Port
- USB 3.2 Gen 1 Port Connectivity
- Easy Access Storage Bay
- Operating in -22°F ~ 167°F (-30°C ~ 75°C) Environment

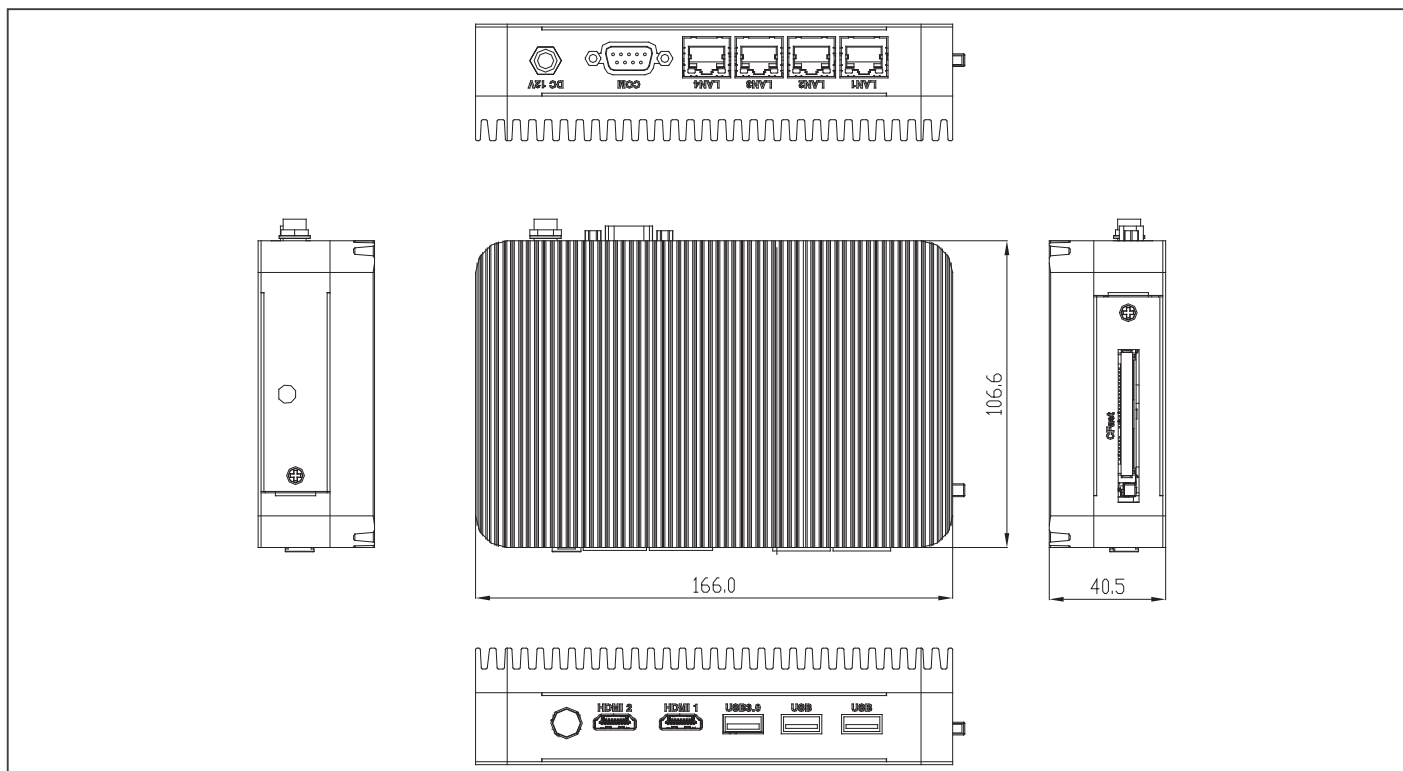


Specifications

System	
CPU	Intel® Celeron™ J1900, 2.0 GHz Intel® Celeron™ N2807, 1.58 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1333 SODIMM slot x 1, up to 8 GB (J1900) or 4 GB (N2807)
Display Interface	HDMI
Storage Device	CFast™
Ethernet	Intel® I211, 10/100/1000Base-TX x 4
I/O	RS-232 x 1 USB 2.0 x 2 USB 3.2 Gen 1 x 1 HDMI x 2 LAN x 4 CFast™ slot x 1 Antenna holes x 1 Power button Power input
Expansion	Full-size Mini-Card (USB interface only) x 1
Indicator	Power LED on power button
OS support	Windows® 10, Windows® 8.1, Windows® 7, Windows® Embedded 8, Windows® Embedded 7, Linux Fedora
Power Supply	
Power Requirement	12V with lockable DC jack
Mechanical	
Mounting	VESA (Mounting kit is optional) DIN rail (Mounting kit is optional)
Dimensions (W x H x D)	6.53" x 4.20" x 1.59" (166mm x 106.6mm x 40.5mm)
Gross Weight	3.59 lb (1.63 kg)
Net Weight	2.6 lb (1.17 kg)
Environmental	
Operating Temperature	-22°F ~ 167°F (-30°C ~ 75°C) with wide temperature CFast™ card (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-22°F ~ 176°F (-30°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation – CFast™ card
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB2.0	RS-232	Storage	Display	Expansion	Mounting	Power	Operating Temp.
BOXER-6404WT-A1-1110	Intel® J1900	Up to 8GB	4	1	2	1	CFast™ bay x 1	HDMI x 2	Full size Mini-card slot x 1 (USB signal)	Din Rail/VESA 75	12V DC in	-22°F ~ 167°F (-30°C ~ 75°C) with 0.5m/s airflow
BOXER-6404WT-A2-1110	Intel® N2807	Up to 4GB	2	1	2	1	CFast™ bay x 1	HDMI x 1	Full size Mini-card slot x 1 (USB signal)	Din Rail/VESA 75	12V DC in	-22°F ~ 167°F (-30°C ~ 75°C) with 0.5m/s airflow

Packing List

- 125530040C
Power Adapter
- BOXER-6404WT

Optional Accessories

- 1702031802
Power Cord (US type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 9751640401
WiFi Module & Antenna
- 9741EC20E1
4G Module & Antenna (For Europe)
- 9741640400
VESA Mount Kit
- 9741640401
DIN Rail Mount Kit
- 9741640402
CFast™ Cover Kit

Din Rail Fanless BOX PC

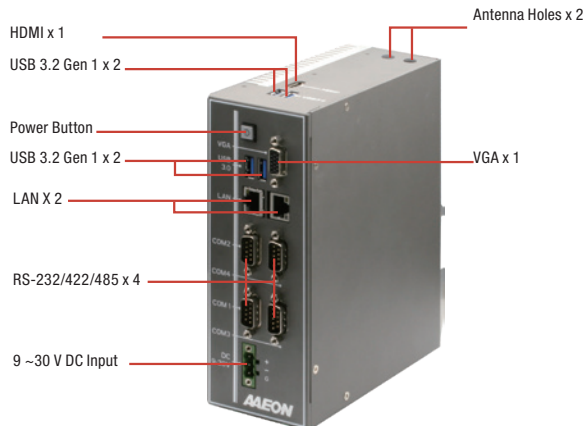
06



BOXER-6750

Din Rail Mount Embedded BOX PC with Intel® Core™ i3-6100U or Celeron® 3955U Processor

Front View



Rear View



Features

- U-Series CPU: Intel® Core™ i3-6100U/ Celeron® 3955U
- DDR4 2133 MHz SODIMM x 1, Memory Max. up to 16GB
- Supports Industrial-grade Intel® GbE LAN x 2
- Supports BIOS Selectable RS-232/422/485 x 4
- VGA + HDMI Dual Display Output
- USB 3.2 Gen 1 x 4
- 8-bit Digital Input and Output x 1 (Optional)
- Wide Range DC 9~30V Input With Power Protection
- Wide Temperature -20 °C ~ 60 °C
- Din-Rail Mount Design



Mechanical

Mounting	DIN Rail Mount Wallmount (Mounting kit is optional)
Dimensions (W x H x D)	2.72" x 7.2" x 6.1" (69mm x 183mm x 155mm)
Gross Weight	6.1 lb (2.8kg)
Net Weight	3.9 lb (1.8kg)

Environmental

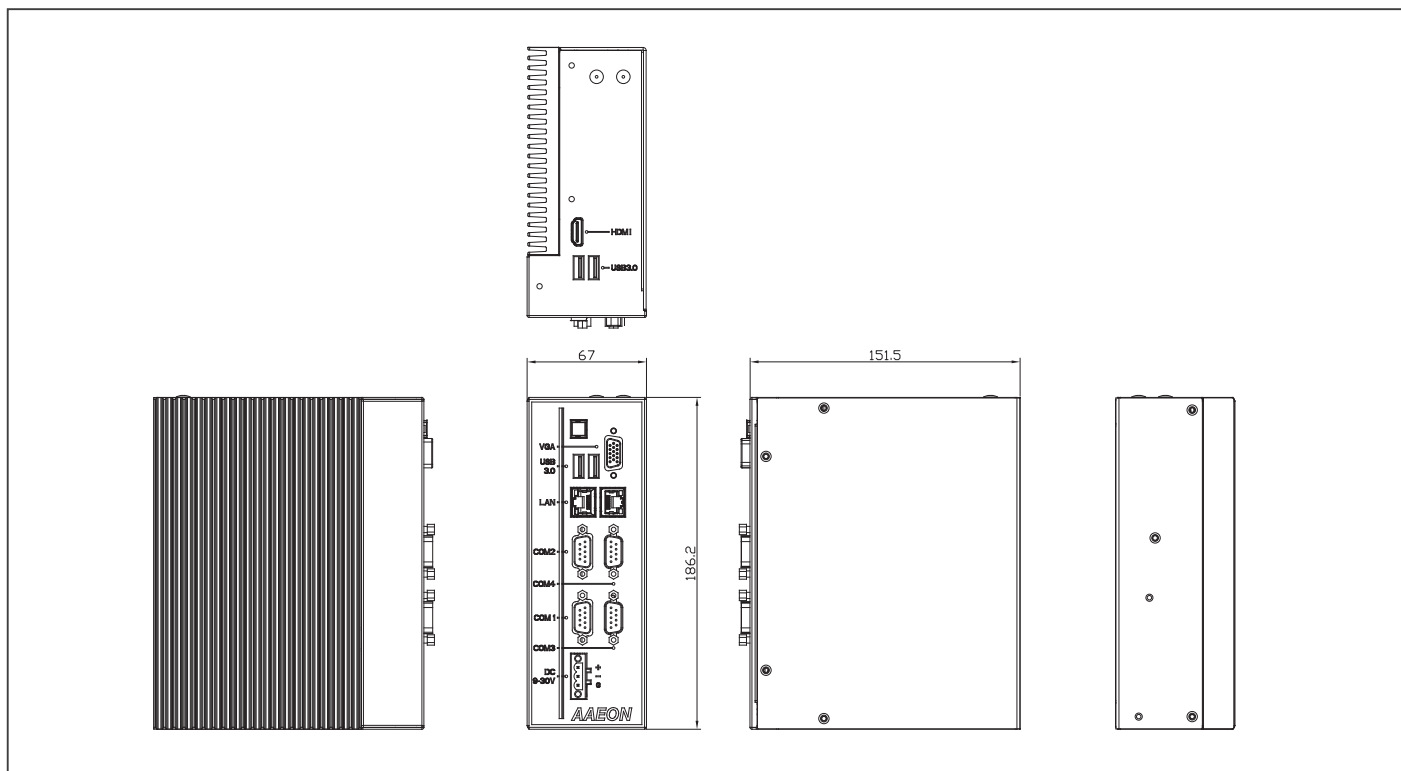
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – mSATA/SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Specifications

System	
CPU	Intel® Core™ i3-6100U Intel® Celeron® 3955U
Chipset	Intel® System on Chip
System Memory	DDR4 2133MHz SODIMM slot x 1, up to 16GB
Display Interface	HDMI x 1, VGA x 1
Storage Device	mSATA, HDD/SSD
Ethernet	Intel® i210-IT x 2
I/O	RS-232/422/485 x 4 RJ-45 x 2 for GbE (i210IT x 2) USB 3.2 Gen 1 x 4 VGA x 1 HDMI x 1 Antenna Holes x 2 Power Switch Power Input
Expansion	Full-size minicard x 1 (PCIe+USB with SIM slot, optional for mSATA) Full-size minicard x 1 (PCIe+USB)
Indicator	Power LED on power button
OS Support	Windows® 10 (64-bit) Windows® 8.1 (64-bit) Windows® 7 (32/64-bit) Linux
Power Supply	
Power Requirement	9 - 30V with 3-pin terminal block

Dimension

Unit: mm



Ordering Information

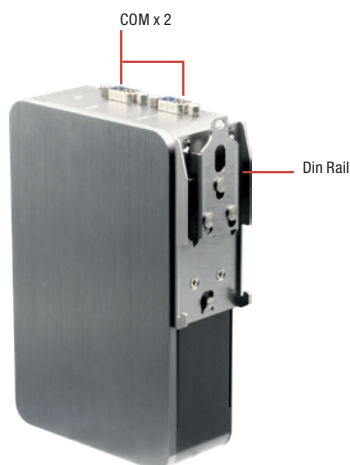
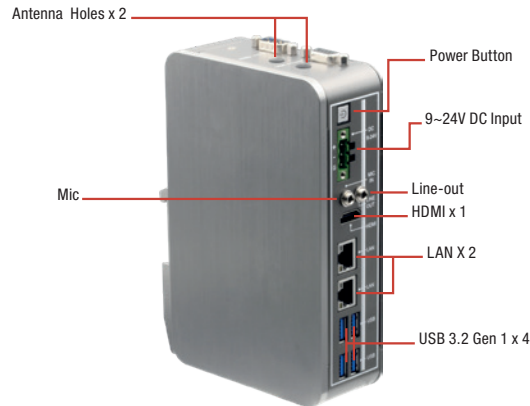
Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6750-A1-1010	Intel® Core™ i3-6100U	—	2	4	—	—	4	—	—	2.5" SATA Drive bay x 1 Optional mSATA x 1	VGA x 1 HDMI x 1	Full-size Minicard x 2	Din Rail Optional Wallmount	9~30V	-20°C ~ 60°C
BOXER-6750-A2-1010	Intel® Celeron® 3955U	—	2	4	—	—	4	—	—	2.5" SATA Drive bay x 1 Optional mSATA x 1	VGA x 1 HDMI x 1	Full-size Minicard x 2	Din Rail Optional Wallmount	9~30V	-20°C ~ 60°C

Packing List

- Din Rail Bracket x 1
- Screw Package x 1
- 3 Pin DC-In Power Connector x 1
- BOXER-6750

Optional Accessories

- 1255900849
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)
- 9741909A00
Wifi 802.11 a/b/g/n + BT 4.0 Kit
- 9741UC20G0
3G module Kit
- 9741640404
Din Rail Mount Kit



Features

- Slim Design: Min. width 44mm
- Designed for Embedded Automation Controller
- Gigabit Ethernet x 2, USB x 4
- Operate in -30°C ~ 60°C Environment
- Support Din Rail Mount

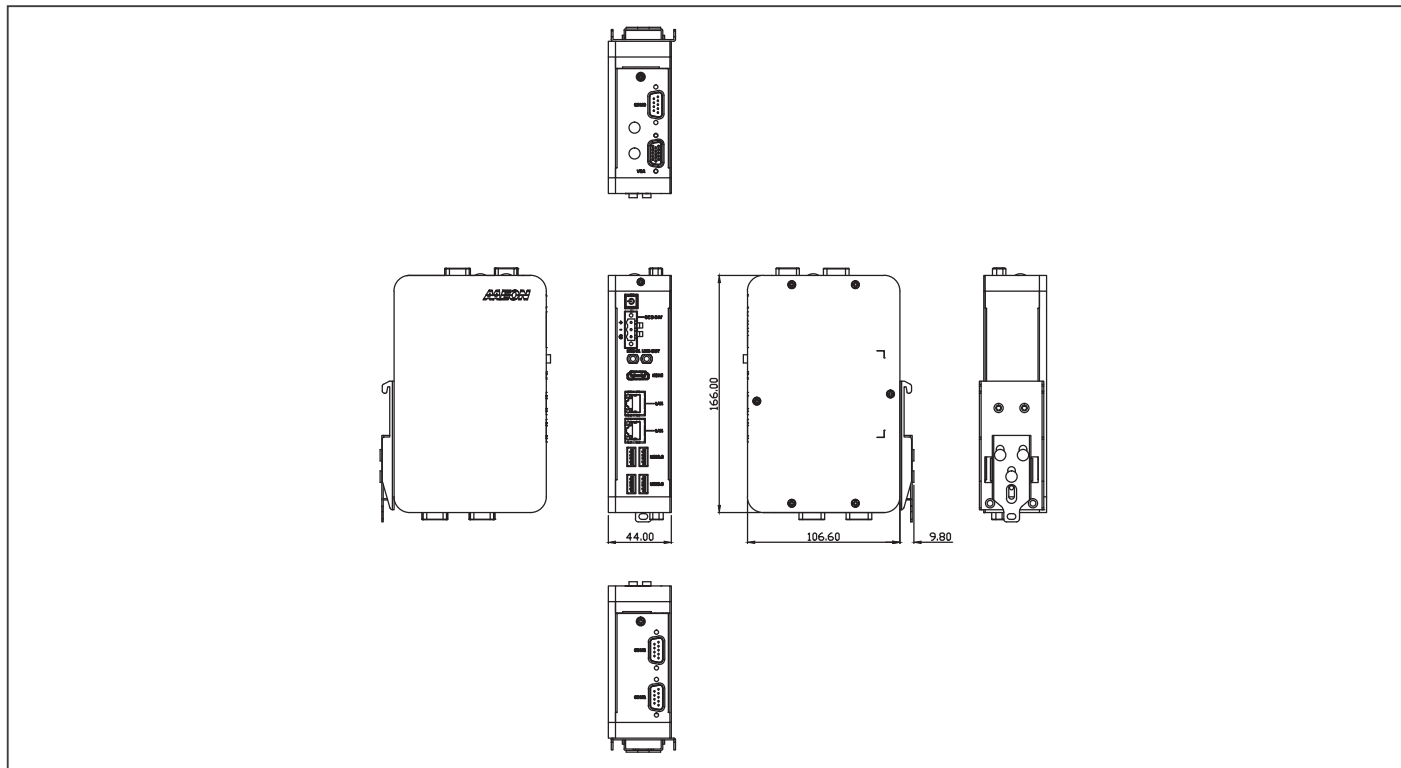


Specifications

System	
CPU	Intel® Pentium® processor N4200 Intel® Celeron® processor N3350
Chipset	Intel® System on Chip
System Memory	DDR3L 1866 SODIMM slot x 1, up to 8GB
Display Interface	HDMI, VGA
Storage Device	HDD/SSD, optional mSATA
Network	Intel® I211-AT x 1 Intel® I219-LM x 1
I/O	VGA x 1 HDMI x 1 RJ-45 x 2 for GbE LAN USB Type A x 4 for USB 3.2 Gen 1 Mic-in x 1 Line-out x 1 RS-232/422/485 x 3 with automatic flow control Power On/Off Button x 1 DC-in 3-pin terminal block (9~24V) x 1
Expansion	Full-size Minicard x 1 w/ SIM Slot Half-size Minicard x 1 (optional for mSATA)
Indicator	Power LED on power button
OS Support	Windows® 10 (64-bit) Windows® 10 IoT (64-bit) Linux Ubuntu 16.04.4
Power Supply	
Power Requirement	9 - 24V with 3-pin terminal block
Mechanical	
Mounting	DIN Rail Mount
Dimensions (W x H x D)	1.73" x 6.54" x 4.17" (44mm x 166mm x 106mm)
Gross Weight	3.08lb (1.4kg)
Net Weight	1.32lb (0.6kg)
Environmental	
Operating Temperature	-22°F ~ 140°F (-30°C ~ 60°C) with W.T. SSD/HDD/mSATA (according to IEC68-2-14 with 0.5 m/s AirFlow ; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5 ~ 500Hz/ operation – mSATA/SSD 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	PCH	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operation temp.
BOXER-6710-A1-1010	N3350	SoC	—	2	4	—	—	3	—	MIC-in, Line-out	2.5" SATA Drive bay x 1 Optional mSATA x1	VGA x 1 HDMI x 1	Full-size Minicard x 1 Half-size Minicard x1	Din Rail Mount	9~24V	-30°C ~ 60°C
BOXER-6710-A2-1010	N4200	SoC	—	2	4	—	—	3	—	MIC-in, Line-out	2.5" SATA Drive bay x 1 Optional mSATA x1	VGA x 1 HDMI x 1	Full-size Minicard x 1 Half-size Minicard x1	Din Rail Mount	9~24V	-30°C ~ 60°C

Packing List

- Din Rail Bracket x 1
- Screw Package x 1
- 3 Pin DC-In Power Connector x 1
- BOXER-6710

Optional Accessories

- 125530040F
Power Adapter
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (Europe)
- 170203180E
Power Cord (Japan)
- 9741238H00
WiFi Module & Antenna
- 9741EC20E0
4G Module & Antenna(for Europe)
- 9741640404
Din Rail Mount Kit

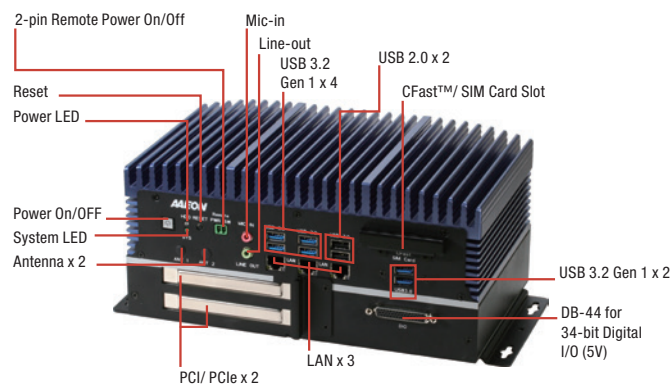
Expandable Fanless BOX PC Solutions

07



Expandable Fanless Embedded Box PC with 6th/ 7th Generation Intel® Core™ Desktop Processor and PCIe [x4] & PCI Expansion

Front View



Rear View



Specifications

System	
CPU	7th Generation Intel® Core™ Processor family: Intel® Core™ i7-7700T, 2.9 GHz Intel® Core™ i5-7500T, 2.8 GHz Intel® Core™ i3-7101TE, 3.4 GHz Intel® Pentium® G4600T, 3.0 GHz Intel® Pentium® G4560T, 2.9 GHz Intel® Celeron® G3930T, 2.7 GHz 6th Generation Intel® Core™ Processor family: Intel® Core™ i7-6700TE, 2.4 GHz Intel® Core™ i5-6500TE, 2.3 GHz Intel® Core™ i3-6100TE, 2.7 GHz Intel® Pentium® G4500T, 3.0 GHz Intel® Pentium® G4400T, 2.9 GHz Intel® Celeron® G3900T, 2.6 GHz
Chipset	Intel® Q170
System Memory	DDR4 1866/2133 SODIMM slot x 2, up to 32GB
Display Interface	HDMI, VGA
Storage Device	CFast™, HDD/SSD
Ethernet	Intel® I210, 10/100/1000 Base-TX x 3

Features

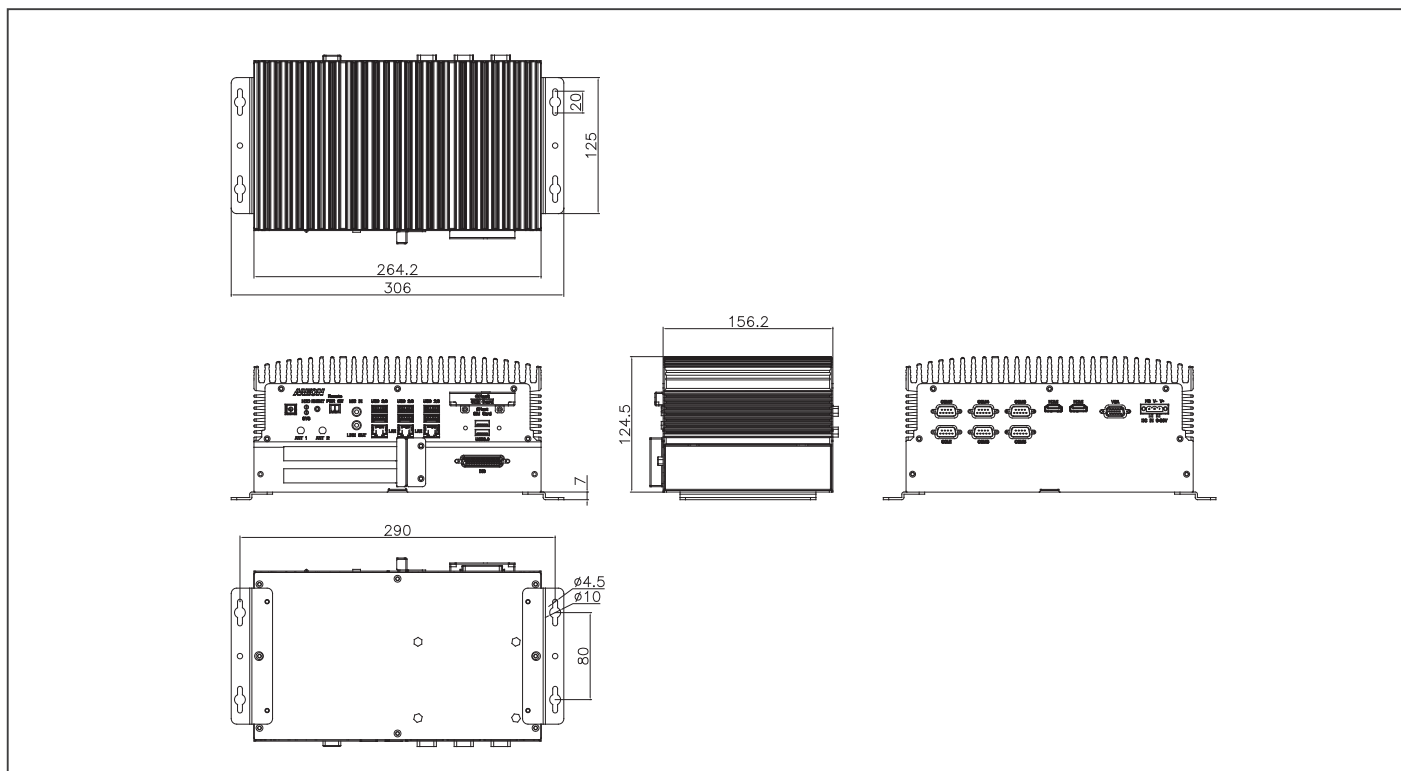
- Extreme Computing Power & Graphic Display Capability
- Desktop Grade Socket Type Processor with Longevity Support
- DDR4 ECC or Non-ECC SODIMM, Up to 32GB
- VGA + HDMI x 2 Triple Display, HDMI 4K Display
- PCIe [x4] & PCI Expansion
- USB 3.2 Gen 1 x 6
- Industrial-grade Intel® GbE LAN x 3
- Supports BIOS Selectable RS-232/422/485 x 6
- Easy Access Design
- Wide Range DC 9~36V Input
- 34-bit Digital Input and Output



I/O	RS-232/422/485 x 6 USB Type A x 6 for USB 3.2 Gen 1 USB Type A x 2 for USB 2.0 RJ-45 x 3 for GbE LAN DB-44 for 34-bit Digital I/O (5V) CFast™ slot x 1 SIM card slot x 1 Power On/Off Button x 1 2 pin Remote power on/off Reset switch Mic-in x 1 Line-out x 1 Antenna opening x 2 SYS LED indicator x 1 HDD LED indicator x 1 DB-15 x 1 for VGA HDMI v1.3 x 2 DC-in 3-pin terminal block (9~36V)
Expansion	Full-size Mini-Card x 2 PCIe [x4] x 1 & PCIe [x1] x 1 (for A1) PCIe [x4] x 1 & PCI x 1 (for A2) PCI x 2 (for A3)
Indicator	Power LED HDD active LED
OS Support	7th Generation Intel® Core™ Processor family: Windows® 10 IOT (64bit) Ubuntu 16.04 above Fedora 25 above CentOS 7.3 above 6th Generation Intel® Core™ Processor family: Windows® 10 IOT (64bit) Windows® 8.1 (64bit) Windows® embedded 8 standard (64bit) Windows® 7 (64bit/32bit) Windows® embedded standard 7 (32/64bit) Ubuntu 16.04 above Fedora 25 above CentOS 7.3 above
Power Supply	
Power Requirement	9 - 36V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.40" x 4.90" x 6.15" (264.2mm x 124.5mm x 156.2mm)
Gross Weight	13.2 lb (6.0 kg)
Net Weight	9.9 lb (4.5 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	5~95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation – SSD/CFast™ card 1 Grms/ 5 ~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Digital I/O	Audio	Storage	Display	Expansion	Mounting	Power	Operating Temp.
BOXER-6839-A1-1010	—	—	3	6	2	6	34 bit	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 2 CFast™ x 1	VGA x 1 HDMI x 2	PCIe[x4] + PCIe[x1] Full-size Minicard x 2	Wallmount	9~36V DC In	-4°F ~ 131°F (-20°C ~ 55°C)
BOXER-6839-A2-1010	—	—	3	6	2	6	34 bit	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 2 CFast™ x 1	VGA x 1 HDMI x 2	PCIe[x4] + PCI Full-size Minicard x 2	Wallmount	9~36V DC In	-4°F ~ 131°F (-20°C ~ 55°C)
BOXER-6839-A3-1010	—	—	3	6	2	6	34 bit	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 2 CFast™ x 1	VGA x 1 HDMI x 2	PCI x 2 Full-size Minicard x 2	Wallmount	9~36V DC In	-4°F ~ 131°F (-20°C ~ 55°C)

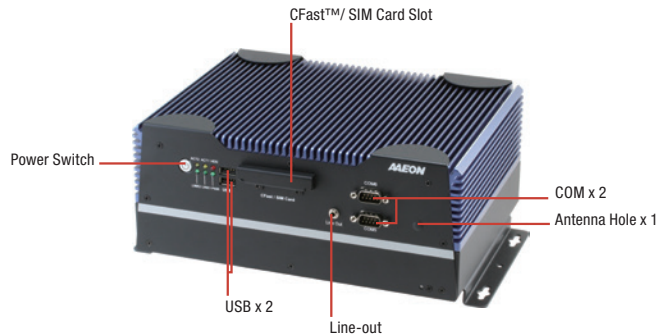
Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- Thermal Pad x 3
- Phoenix Power Connector x 1
- BOXER-6839

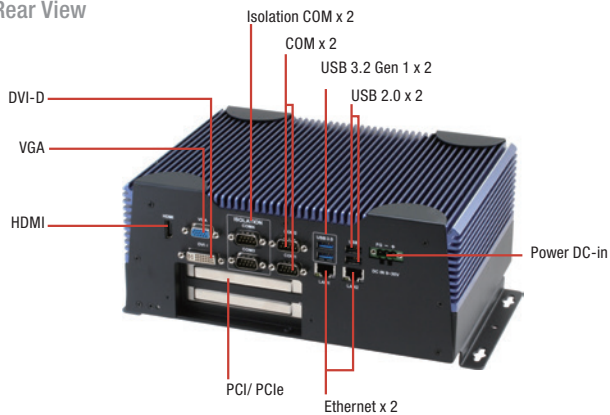
Optional Accessories

- **125590120B**
Power Adapter
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (Europe)
- **170203180E**
Power Cord (Japan)
- **9741159H00**
WiFi/Bluetooth Module & Antenna
- **9741EC25E0**
4G Module & Antenna (For Europe)
- **9741EC25A0**
4G Module & Antenna (For USA-AT&T)
- **9741EC25V0**
4G Module & Antenna (For USA-Verizon)

Front View



Rear View



Features

- Reliable System with Cable-less Design
- Intel® Core™ i5-4402E (2.7 GHz)
- Mini-Card Slot x 2 (USB & PCIe Signal) & PCIe [x1] x 2
- Rich I/O with Protection
- Isolated RS-232/422/485 x 2



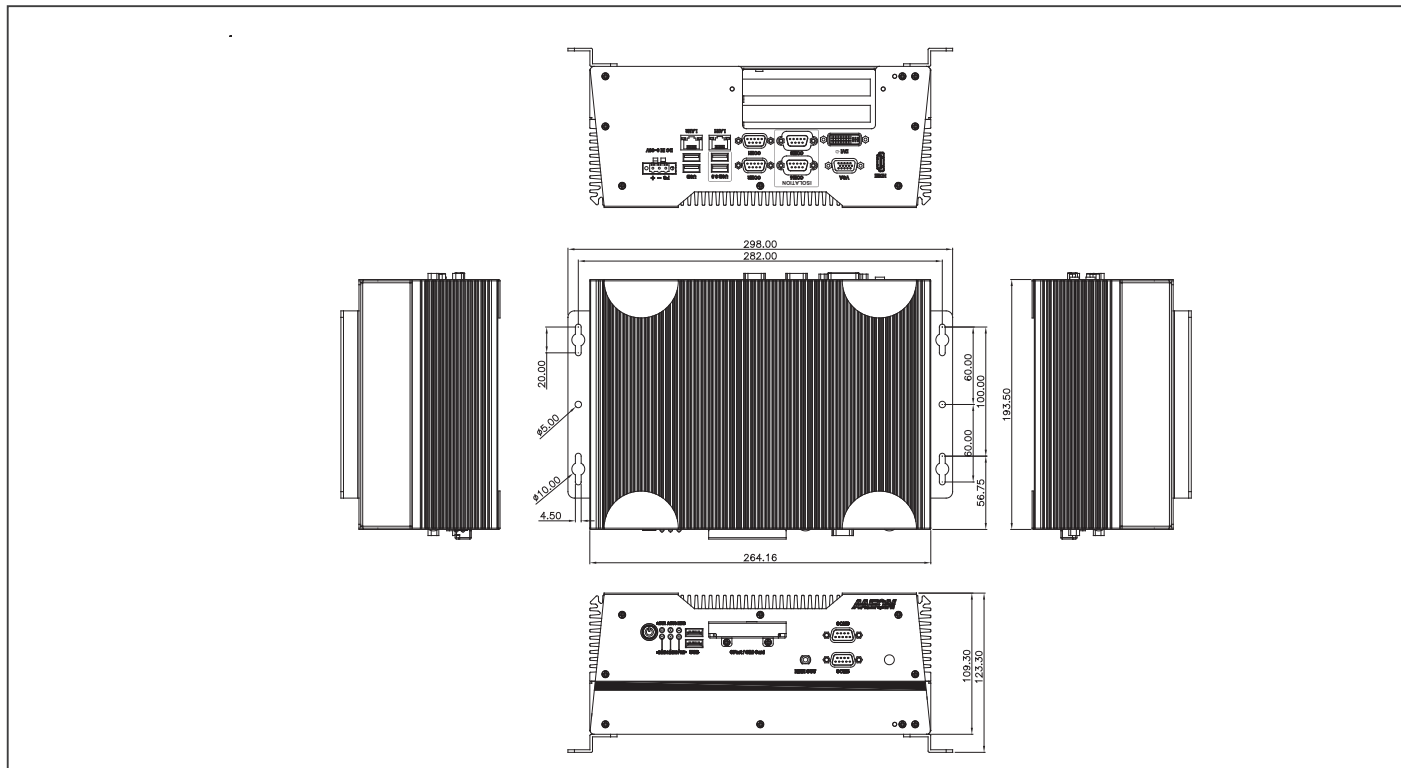
Expansion	Full-size Mini-Card x 1 Half-size Mini-Card x 1 PCI/PCIe slot x 2
Indicator	Power LED HDD active LED LAN LED
OS support	Windows® 7, Windows® 8/8.1, Windows® 10, Linux Fedora
Power Supply	
Power Requirement	9 - 30V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.4" x 4.3" x 7.62" (264.16mm x 109.3mm x 193.5mm)
Gross Weight	12.1 lb (5.5 kg)
Net Weight	8.8 lb (4 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with wide temperature HDD (according to IEC68-2-14 with 0.5 m/s AirFlow; with industrial devices)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	5 Grms/ 5 ~ 500Hz/ operation –mSATA / SSD 1 Grms/ 5~ 500Hz/ operation – HDD
Certification	CE/FCC class A

Specifications

System	
CPU	Intel® Core™ i5-4402E, 2.7 GHz
Chipset	Intel® QM87
System Memory	DDR3L 1333/1600 SODIMM slot x 1, up to 8 GB
Display Interface	VGA, HDMI, DVI-D
Storage Device	CFast™, HDD/SSD
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1 Intel® I217LM, 10/100/1000 Base-TX x 1
I/O	Isolated RS-232/422/485 x 2 RS-232 x 4 USB 2.0 x 4 USB 3.2 Gen 1 x 2 VGA x 1 HDMI x 1 DVI x 1 Line-out x 1 LAN x 2 CFast slot x 1 PCI/PCIe slot x 2 Antenna holes x 2 Power switch Power input

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485 with isolation	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6852-A1-1010	i5-4402E	—	2	2	4	4	2	Line-out x 1	CFast slot x 1 2.5" HDD bay x 1	DVI-D x 1 VGA x 1 HDMI x 1	Full-size Mini-Card x 1 Half-size Mini-Card x 1 PCIe[x1] x 2	Wall Mounted Desktop	DC 9 ~ 30V	-4°F ~ 140°F (-20°C ~ 60°C) according to IEC60068-2, 0.5m/s air flow
BOXER-6852-A2-1010	i5-4402E	—	2	2	4	4	2	Line-out x 1	CFast slot x 1 2.5" HDD bay x 1	DVI-D x 1 VGA x 1 HDMI x 1	Full-size Mini-Card x 1 Half-size Mini-Card x 1 PCIe[x1] x 1, PCI x 1	Wall Mounted Desktop	DC 9 ~ 30V	-4°F ~ 140°F (-20°C ~ 60°C) according to IEC60068-2, 0.5m/s air flow
BOXER-6852-A3-1010	i5-4402E	—	2	2	4	4	2	Line-out x 1	CFast slot x 1 2.5" HDD bay x 1	DVI-D x 1 VGA x 1 HDMI x 1	Full-size Mini-Card x 1 Half-size Mini-Card x 1 PCI x 2	Wall Mounted Desktop	DC 9 ~ 30V	-4°F ~ 140°F (-20°C ~ 60°C) according to IEC60068-2, 0.5m/s air flow

Packing List

- Wallmount Brackets
- Screw Package
- RAM Thermal Pad
- Phoenix Power Connector
- BOXER-6852

Optional Accessories

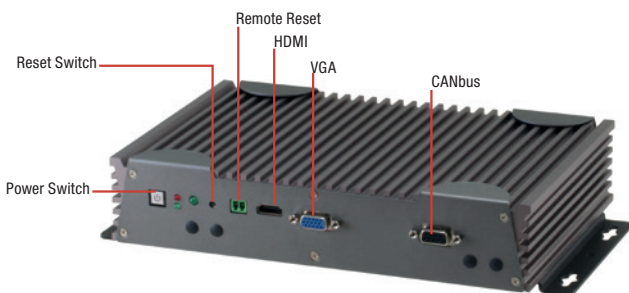
- **1255900849**
Power adapter, DC12V,7A,84W,3p phoenix
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741685200**
Dual HDD Bracket Kit

Transportation BOX PC Solutions

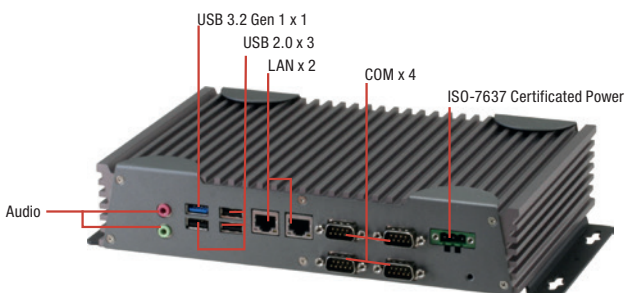
08



Front View



Rear View



Features

- Intel® Atom™ E3845, 1.91 GHz Processor, Optional for J1900, N2807
- Supports OVP/UVF/Reverse Protection, On/Off Delay and Battery Protection
- Fanless Operation
- Mini PCIe x 3 and SIM x3
- Onboard CANBUS/ GPS
- Supports DC +12V or DC +24V Vehicle Power and ACC Function

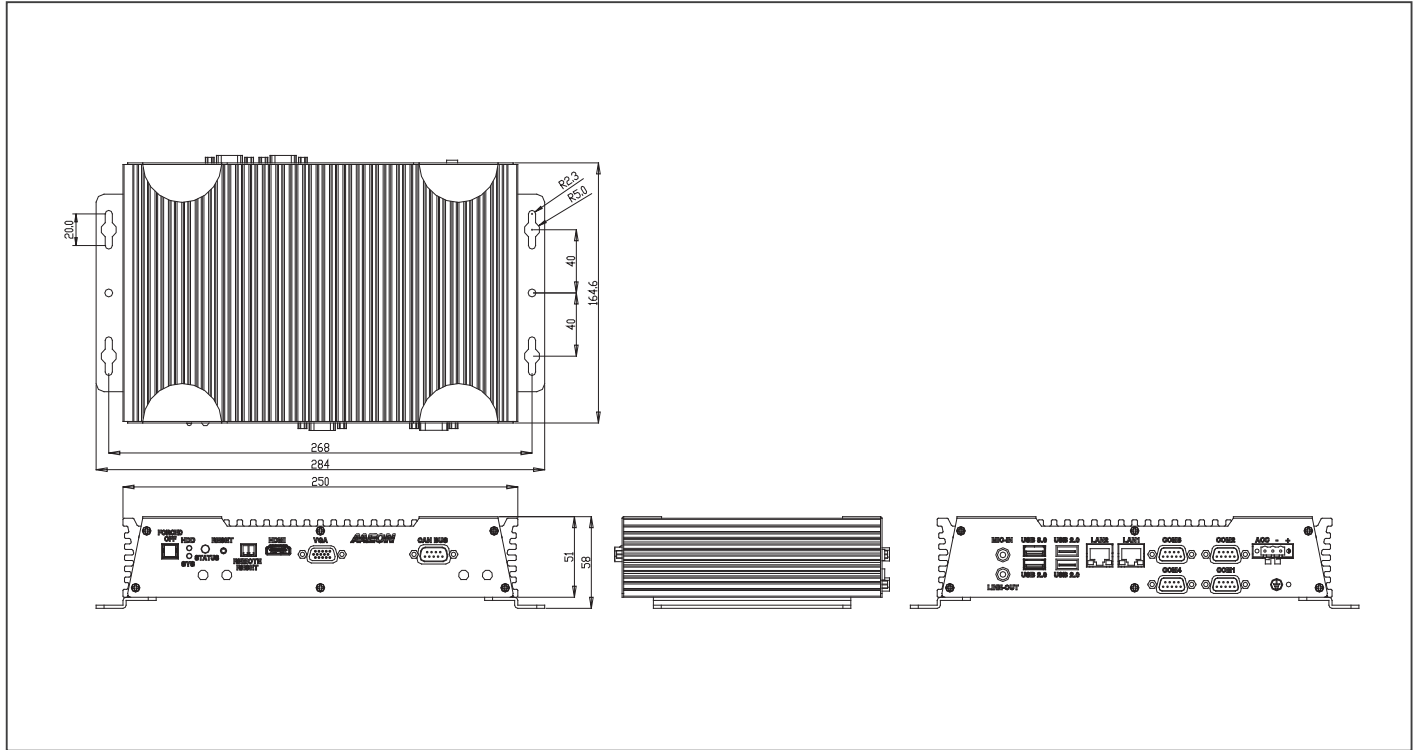


Specifications

System	
CPU	Intel® Atom™ E3845, 1.91 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1066/1333 SODIMM slot x 1, up to 8 GB
Display Interface	HDMI, VGA
Storage Device	2.5" HDD bay x 2
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O	RS-232/422/485 x 2 isolated RS-232 x 2 USB 3.2 Gen 1 x 1 USB 2.0 x 3 HDMI x 1 VGA x 1 LAN x 2 2 Channel CANBUS x 1 Mic-in x 1 Line-out x 1 Antenna hole x 4 Power on/off LED button x 1 Power input
Expansion	Full-size Mini-Card x 3 with SIM slot x 3
Indicator	Power LED on power button HDD active LED
OS support	Windows® 10, Windows® 8.1, Windows® 7, Linux Fedora
Power Supply	
Power Requirement	9-30V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	10.55" x 6.48" x 2.00" (268mm x 164.6mm x 51mm)
Gross Weight	9.0 lb (4.1 kg)
Net Weight	6.6 lb (3.1 kg)
Environmental	
Operating Temperature	5°F ~ 149°F (-15°C ~ 65°C)(according to IEC60068-2, with 0.5m/s AirFlow)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	3 Grms/ 5~ 500Hz/ operation – CFast™
Certification	CE/FCC class A, E13, ISO7637

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	POE	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	DIO	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6313U-A1-1010	Intel® Atom™ E3845 1.91 GHz	—	2	—	1	3	2	2	—	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 2	VGA x 1 HDMI x 1	Full-size Minicard x 3	Wallmount	DC12V Battery	-15°C ~ 65°C
BOXER-6313U-A2-1010	Intel® Atom™ E3845 1.91 GHz	—	2	—	1	3	2	2	—	MIC-in x 1 Line-Out x 1	2.5" Drive Bay x 2	VGA x 1 HDMI x 1	Full-size Minicard x 3	Wallmount	DC24V Battery	-15°C ~ 65°C

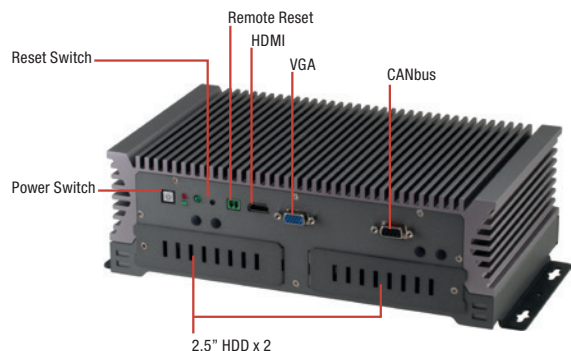
Packing List

- Phoenix 2-pin Remote Reset Connector x 1
- GPS Antenna x 1
- Screw Pack x 1
- Wallmount Bracket x 2
- RAM Thermal Kit x 1
- BOXER-6313U

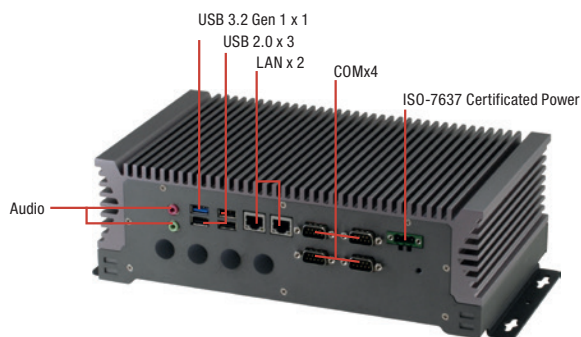
Optional Accessories

- **9751640300**
4G (EU) & GPS Module Kit
- **9751640301**
4G (US) & GPS Module Kit
- **9741C50W04**
WiFi 802.11 b/g/n + BT 3.0 Kit

Front View



Rear View



Features

- Intel® Atom™ E3845, 1.91 GHz Processor, Optional for J1900, N2807
- Easy Access 2.5" Drive Bay x 2
- Supports OVP/UVP/Reverse Protection, On/Off Delay and Battery Protection
- Fanless Operation
- Mini PCIe x 3 and SIM x 3
- Onboard CANBUS/ GPS
- Supports DC +12V or DC +24V Vehicle Power and ACC Function

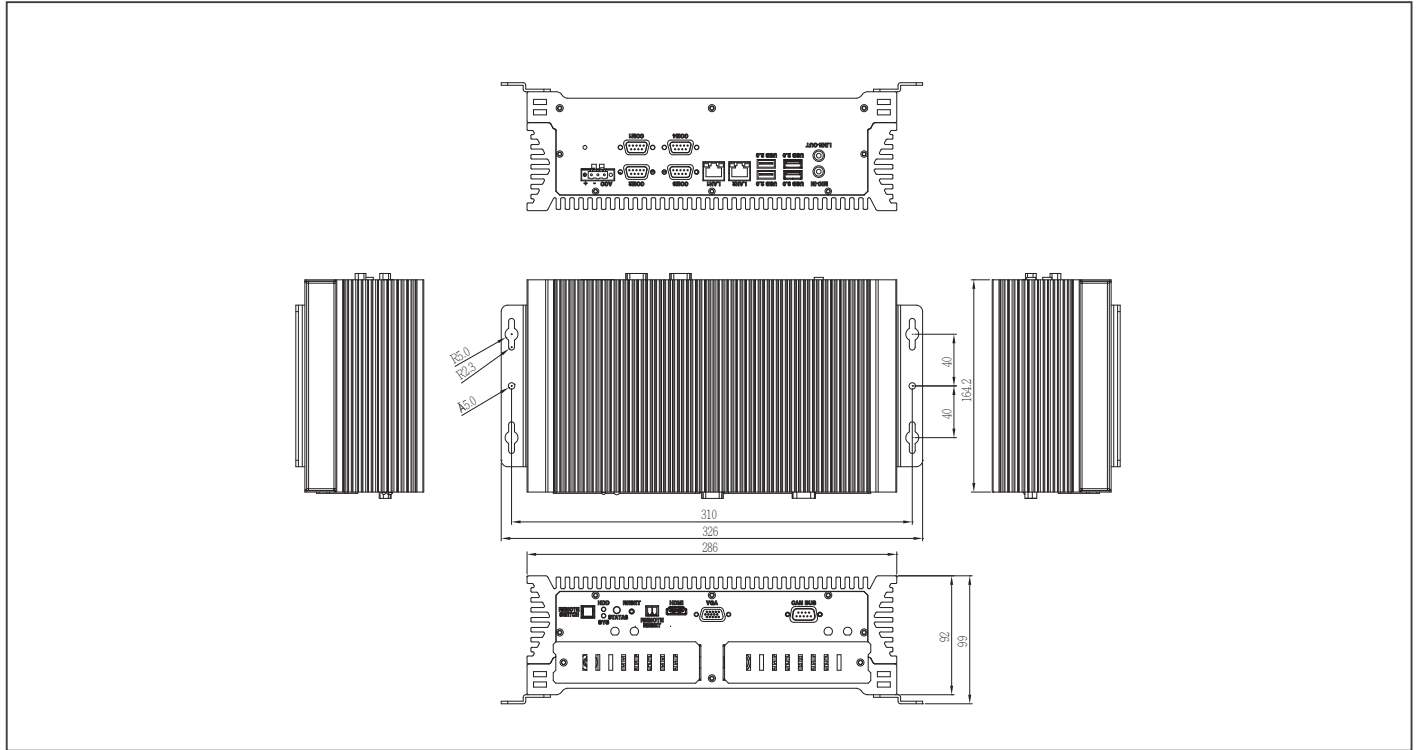


Specifications

System	
CPU	Intel® Atom™ E3845, 1.91 GHz
Chipset	Intel® System on Chip
System Memory	DDR3L 1066/1333 SODIMM slot x 1, up to 8 GB
Display Interface	HDMI, VGA
Storage Device	2.5" HDD bay x 2
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O	RS-232/422/485 x 2 isolated RS-232 x 2 USB 3.2 Gen 1 x 1 USB 2.0 x 3 HDMI x 1 VGA x 1 LAN x 2 2 Channel CANBUS x 1 Mic-in x 1 Line-out x 1 Antenna hole x 4 Removable 2.5" HDD kit x 2 Power on/off LED button x 1 Power input
Expansion	Full-size Mini-Card x 3
Indicator	Power LED on power button HDD active LED
OS support	Windows® 10, Windows® 8.1, Windows® 7, Linux Fedora
Power Supply	
Power Requirement	9 - 30V with 3-pin terminal block
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	11.26" x 6.46" x 3.62" (286mm x 164.2mm x 92mm)
Gross Weight	15.4 lb (7 kg)
Net Weight	14.3 lb (6.5 kg)
Environmental	
Operating Temperature	5°F ~ 149°F (-15°C ~ 65°C)(according to IEC60068-2, with 0.5m/s AirFlow)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity	95% @ 40°C, non-condensing
Anti-Vibration	1 Grms/ 5 ~ 500Hz/ operation ~ HDD
Certification	CE/FCC class A, E13, ISO7637

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	POE	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	DIO	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6313-A1-1010	Intel® Atom™ E3845 1.91 GHz	—	2	—	1	3	2	2	—	Line-out x 1 MIC-in x 1	2.5" Drive bay x 2	VGA x 1 HDMI x 1	Full-size Mini-Card x 3	Wallmount	DC 12V Battery	5°F ~ 122°F (-15°C ~ 50°C)
BOXER-6313-A2-1010	Intel® Atom™ E3845 1.91 GHz	—	2	—	1	3	2	2	—	Line-out x 1 MIC-in x 1	2.5" Drive bay x 2	VGA x 1 HDMI x 1	Full-size Mini-Card x 3	Wallmount	DC 24V Battery	5°F ~ 122°F (-15°C ~ 50°C)

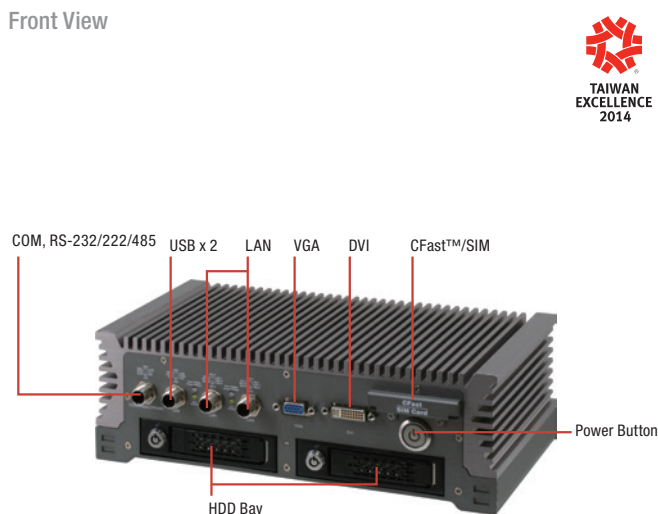
Packing List

- Phoenix 3-pin DC-in Power Connector x 1
- Phoenix 2-pin Remote Reset Connector x 1
- GPS Antenna x 1
- Screw Pack x 1
- Wallmount Bracket x 2
- RAM Thermal Kit x 1
- HDD Tray Key x 2
- BOXER-6313

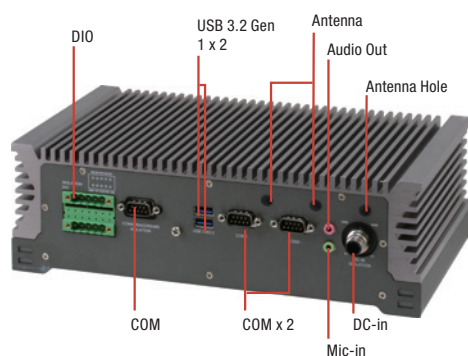
Optional Accessories

- **9751640300**
4G (EU) & GPS Module Kit
- **9751640301**
4G (US) & GPS Module Kit
- **9741C50W04**
WiFi 802.11 b/g/n + BT 3.0 Kit

Front View



Rear View



Features

- Onboard Intel® Core™ i7-3517UE or Celeron® 827E Processor
- EN50155Tx Certified
- Isolated RS-232/422/485 x 1
- Isolated Digital Input x 6 + Digital Output x 2
- WiFi/ 3G/ GPS
- Rugged M12 Connector for LAN/ Serial/ USB/ Power
- 17V~30V (Certified by EN50155), 17V~75V (Compliant with EN50155)
- Supports OVP/UVP/SCP/Reverse-Voltage Protection

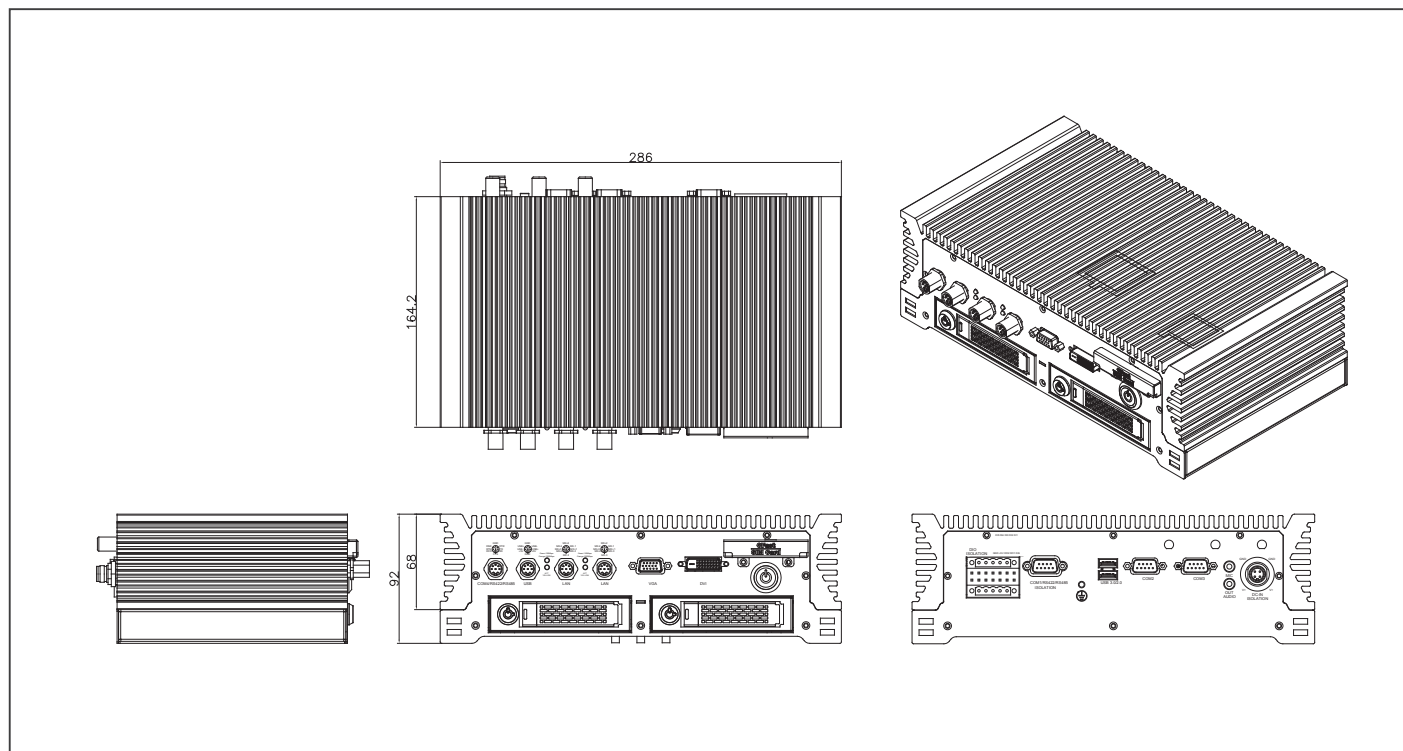


Specifications

System	
CPU	Intel® Core™ i7 3517UE 1.7 GHz
Chipset	Intel® QM77
System Memory	DDR3 1333/1600 SODIMM slot x 1, up to 8 GB
Display Interface	DVI-D, VGA
Storage Device	CFast™, HDD/SSD (for HDD SKU)
Ethernet	Intel® 82579LM, 10/100/1000 Base-TX x 1 Intel® 82574L, 10/100/1000 Base-TX x 1
I/O	M12 RS-232/422/485 x 1 M12 LAN x 2 M12 dual USB2.0 x 1 Isolated RS-232/422/485 x 1 RS-232/422/485 x 2 USB 3.2 Gen 1 x 2 VGA x 1 DVI-D x 1 Isolated Digital input x 4 Isolated Digital output x 2 Antenna hole x 3 Removable 2.5" HDD kit x 2 (for HDD SKU) Power on/off
Expansion	Full-size Mini-Card x 1 Half-size Mini-Card x 1
Indicator	Power LED on power button
OS Support	Windows® 8.1, Windows® 7, Windows® XP
Power Supply	
Power Requirement	17~30V with M12
Mechanical	
Mounting	Wallmount
Dimensions (W x H x D)	11.26" x 6.86" x 5.32" (286mm x 174.2mm x 135mm)
Gross Weight	18.2 lb (8.3 kg)
Net Weight	17.0 lb (7.7 kg)
Environmental	
Operating Temperature	-40°F ~ 158°F (-40°C ~ 70°C), 85°C for 10 minutes (according to EN50155 Tx)
Storage Temperature	Compliant with EN50155/EN50121 standard
Storage Humidity	Compliant with EN50155/EN50121 standard
Anti-Vibration	Compliant with EN613731 standard
Certification	CE/FCC class A., EN50155, EN50121, EN45545

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB	RS-232	RS-232 /422/485	DIO	Storage	Display	Expansion	Mounting	Power	Operation temp.
AEV-6356-A1-1010	Core™ i7-3517UE	8 GB (Max.)	2	USB 2.0 x 2, USB 3.2 Gen 1 x 2	1	2	DI x 6, DO x 2	CFast™ x 1	VGA x 1, DVI-D x 1	Full size Mini-PCle x 1, Half size Mini-PCle x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)
AEV-6356-A2-1010	Celeron® 827E	8 GB (Max.)	2	USB 2.0 x 2, USB 3.2 Gen 1 x 2	2	2	DI x 6, DO x 2	CFast™ x 1	VGA x 1, DVI-D x 1	Full size Mini-PCle x 1, Half size Mini-PCle x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)
AEV-6356HDD-A1-1010	Core™ i7-3517UE	8 GB (Max.)	2	USB 2.0 x 2, USB 3.2 Gen 1 x 2	2	2	DI x 6, DO x 2	CFast™ x 1, 2.5" HDD x 2	VGA x 1, DVI-D x 1	Full size Mini-PCle x 1, Half size Mini-PCle x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)
AEV-6356HDD-A2-1010	Celeron® 827E	8 GB (Max.)	2	USB 2.0 x 2, USB 3.2 Gen 1 x 2	2	2	DI x 6, DO x 2	CFast™ x 1, 2.5" HDD x 2	VGA x 1, DVI-D x 1	Full size Mini-PCle x 1, Half size Mini-PCle x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)

Packing List

- Waterproof Power Kit x 1
- Wallmount Bracket x 2
- M12 Power DC Jack Kit x 1
- M12 USB Y Cable x 1
- M12 COM Cable x 1
- M12 LAN Cable x 2
- AEV-6356

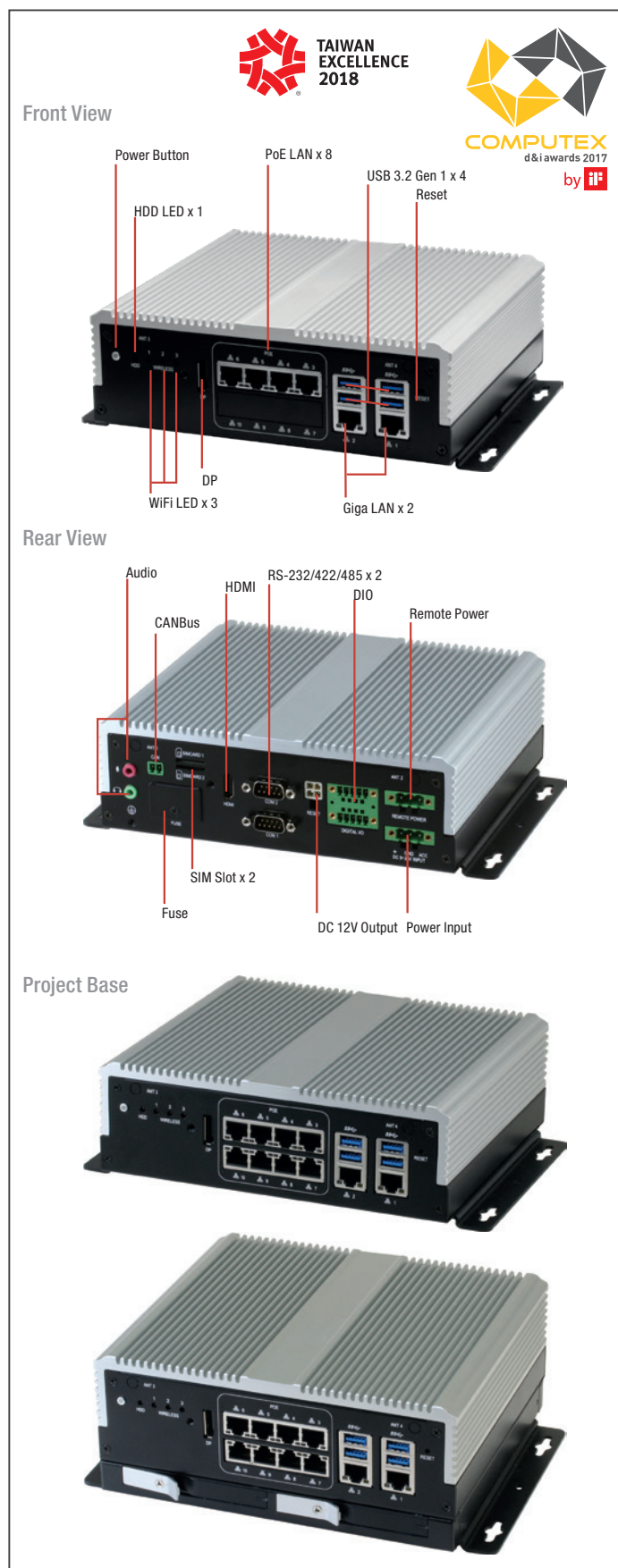
Optional Accessories

- **1700080308**
USB Y Cable with M12 Connector
- **1700090309**
COM Cable with M12 Connector
- **1700080309**
LAN Cable with M12 Connector
- **M996356000**
Waterproof Power Kit
- **9761635600**
3G & GPS Module
- **9761635601**
WiFi 802.11 b/g/n Module

Network Video Recorder & Mobile NVR

09



TAIWAN
EXCELLENCE
2018COMPUTEX
d&i awards 2017
by iF

Features

- In-Vehicle Network Video Recorder Platform
- Fanless System
- 260-pin DDR4 2133 MHz SODIMM x 2, up to 32 GB
- Intel® Integrated Graphics Engine Supports Two Display by HDMI x 1, DP x 1
- Realtek® Ethernet Connection x 6 Ports (including 4 x PoE Ports). 8 x PoE Ports support is project based
- Mini-PCIe Socket x 3 (Full-size x 2 & Half-size x 1), mSATA Slot x 1 (Optional)
- Built-in CAN 2.0B. Optional OBDII Function (SAE J1939/J1708) (UART Interface)
- E-Mark Certified

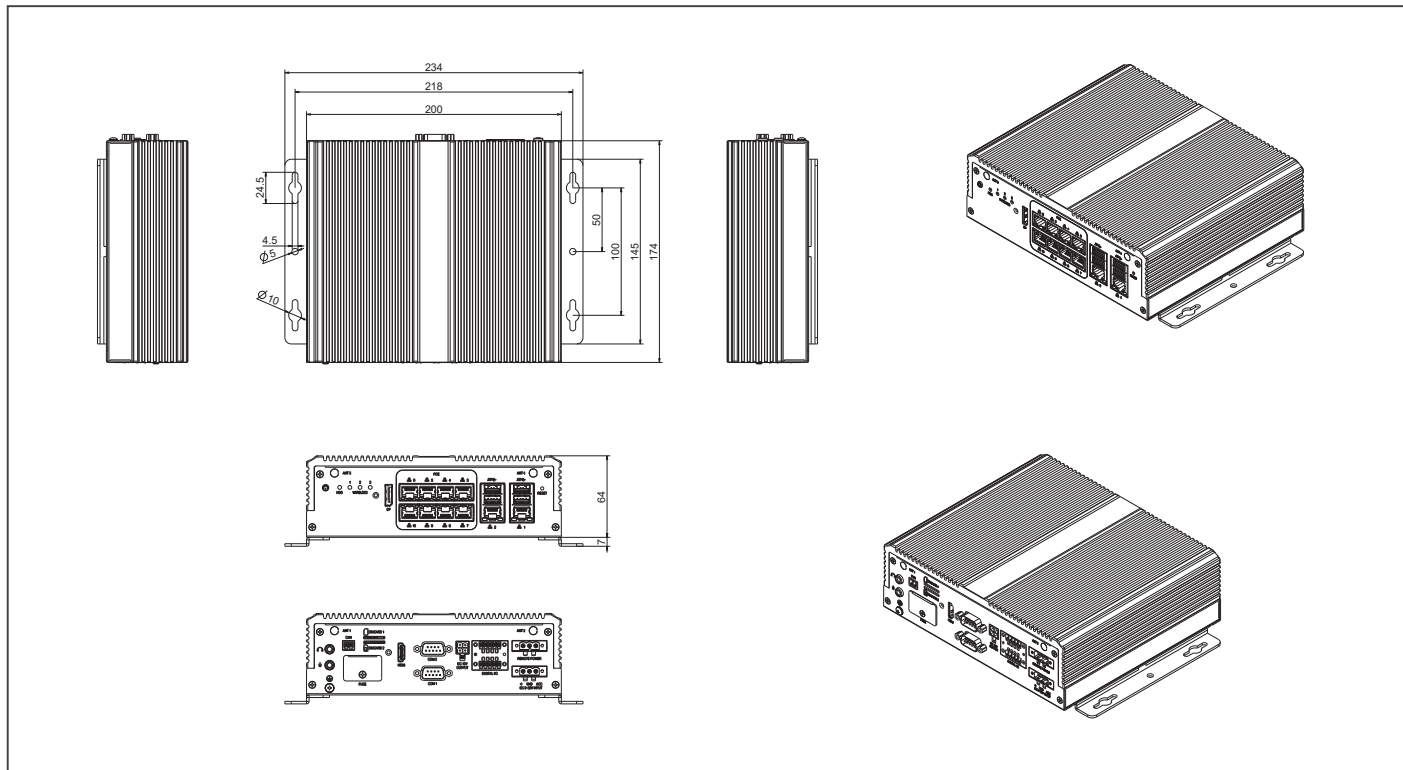


Specifications

System	
Form Factor	In-Vehicle NVR
Processor	Intel® 7th Gen. Core™ i3/i5/i7 Processor (Default: i3-7100U; Project base: i5-7300U, i7-7600U)
Chipset	—
Main Memory	Up to 32GB, DDR4 260-pin SODIMM
Display	HDMI x 1, DP x 1
Ethernet	LAN x 2 + 4 PoE Ports (Up to 8 PoE ports), RTL8111E 10/100/1000 Base
PoE Ethernet Port	4 ports (Max. 8 ports), sharing 60W of power budget for every four PoE ports.
RAID support	0/1
Expansion Slot	Mini-Card slot x 3 (USB2.0 x 2 + PCIe & USB 2.0 x 1) Built-in CAN 2.0B x 1
GPS, G-Sensor	On board (GPS/GLONASS), G Sensor
Front I/O Panel	Power Button x 1 3G/4G/WiFi LED x 3 USB 3.2 Gen 1 x 4 GbE port (RJ-45) x 2 PoE LAN x 4 (IEEE 802.3 at/af), Max. 8 ports DP x 1 Reset Button x 1
Rear I/O Panel	DC-In power x 1 Remote Power x 1 8-bit DIO x 1, 4-ch digital input (Wet/dry contact with Isolation Protection 3,000 VDC), 4-ch digital output (Compatible 5 V/TTL, 31 mA max. per channel) DC 12V/1A Output x 1 RS-232/422/485 x 2 HDMI x 1 CanBus connector x 1, Audio Line-out x 1, Mic-In x 1 SIM slot x 2
Storage	
HDD Tray	2.5" SSD x 2
CF/CFast/mSATA Slot	mSATA Slot x 1 (If mSATA x 1 used, then only one SATA available)
Environmental	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C); Project base, -40°C ~ 85°C
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	10%~80% @40°C, non-condensing
Vibration/Shock	MIL-STD-810G
Certification	CE & FCC Class A, EMARK
Power Requirement	
Power Supply	DC 10-36V, with ignition pin
Mechanical	
Removable HDD Tray	Hot swappable 2.5" SSD x 2 (Project base) via extension module
Internal System HDD Bay	2.5" HDD x 2
Dimension	6.85" x 7.87" x 2.52" (174mm x 200mm x 64mm)
Gross Weight	5.7 lb (2.6 kg)
Note	—

Dimension

Unit: mm



Ordering Information

Part Number	Chipset	RAM	Cooler	Storage	RAID Support	Display	LAN	PoE	USB	RS-232	RS-232/422/485	Expansion Slot	Form Factor	Power
VPC-5600S-I43-A10-W1	Intel® i3-7100U	260-pin SODIMM	Fanless	Supporting 2.5" SSD x 2 (Optional SKU for supporting 2.5" SSD x 1, mSATA x 1)	0/1	DP x 1, HDMI x 1	GbE x 2	4 Ports	USB 3.2 Gen 1 x 4	—	2	Mini-Card x 3 Built-in CAN2.0B x 1	Desktop	DC 10-36V

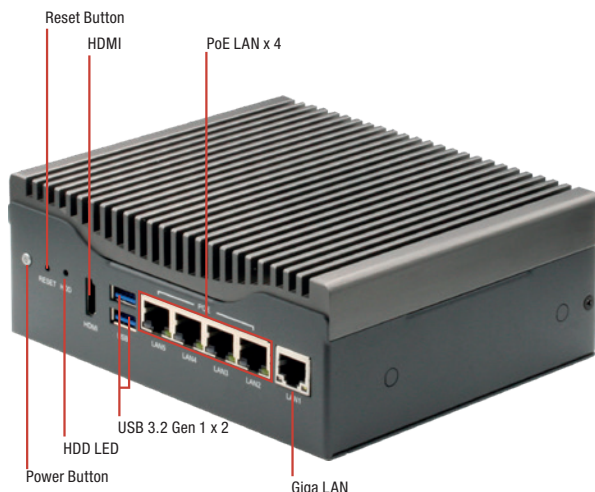
Packing List

- Wall mount bracket
- SATA cable x 2,
- Power cable x 2 (for SATA)
- VPC-5600S

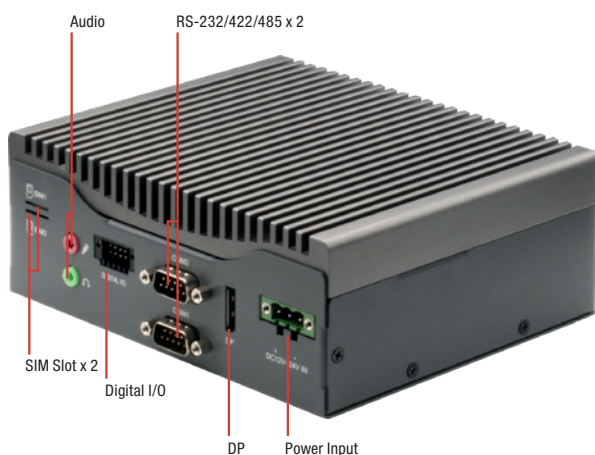
Optional Accessories

- **1255901204**
120W Adapter, AC Input, 19V DC for VPC Series
- **9741909A00**
WiFi Module Kit, 802.11 a/b/g/n + BT 4.0, (Bointec DPE-909AA), with Cable & Antenna
- **17599RFA0B**
WiFi Antenna
- **1700010252**
WiFi Coaxial Cable
- **978966660G**
GPS Antenna
- **9741UC20G1**
3G Module Kit, USB Interface, Quectel UC20-G w/ Cable & Antenna
- **17599RFA09**
3G Antenna
- **1700010255**
3G Coaxial Cable
- **9741EC25E0**
PCIe Mini Card, 4G LTE Module kit for Europe & Asia w/ Cable & Antenna, Quectel EC25-E

Front View



Rear View



Features

- Mobile Network Video Recorder Platform
- Fanless System
- 204-pin Single Channel DDR3L 1866 MHz SODIMM up to 8 GB
- Intel® Integrated Graphics Engine Supports Two Display by HDMI x 1, DP x 1
- Intel® Ethernet Connection x 5 Ports (including 4 x PoE Ports)
- Full Mini-PCIe Socket x 2 (USB + PCIe); (Support up to Mini-PCIe Socket x 4, Optional)
- Built-in CANBus, GPS & G-Sensor (In-vehicle config. by project base)
- E-Mark Certified (In-vehicle config. by project base)

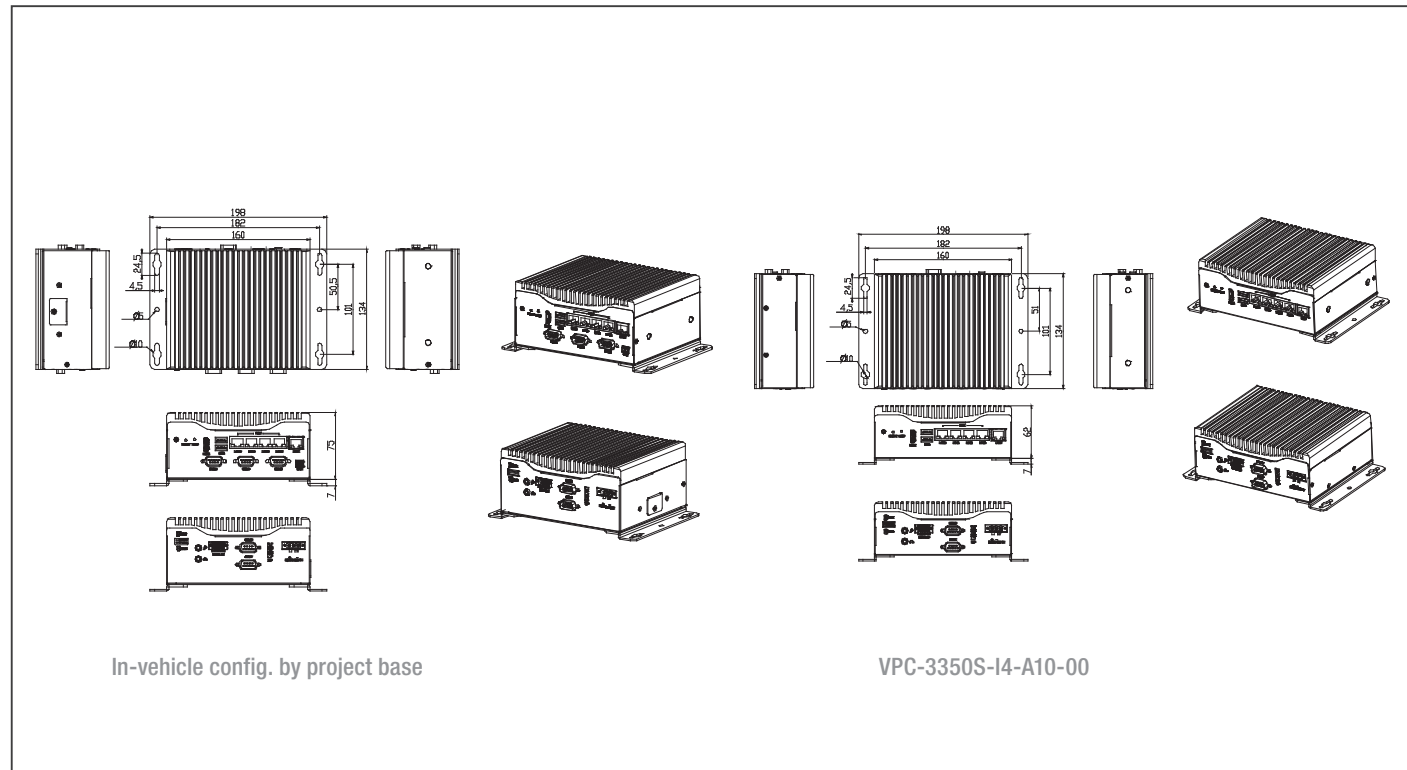


Specifications

System	
Form Factor	Mobile NVR
Processor	Intel® Pentium®/ Celeron®/ Atom™ Processor (Default: E3940; Project base: N4200/N3350, or E3950 w/ customized chassis)
Chipset	—
Main Memory	Up to 8GB, DDR3L 204-pin SODIMM
Display	HDMI x 1, DP x 1
Ethernet	Intel® i211 (colay i210)
PoE Ethernet Port	4 ports, sharing 60W of power budget for every four PoE ports
RAID support	—
Expansion Slot	Mini-Card slot x 2 (USB2.0 + PCIe) SATA x 1 Built-in CANBus (In-vehicle config. by project base)
GPS, G-Sensor	Built-in GPS & G-Sensor (In-vehicle config. by project base)
Front I/O Panel	Power Button x 1 Reset Button x 1 Power/HDD, LED x 2 USB 3.2 Gen 1 x 2 GbE port (RJ-45) x 1 PoE LAN x 4 (IEEE 802.3 at/af) HDMI x 1 CanBus connector x 1 (In-vehicle config. by project base) RS-232 x 3 (In-vehicle config. by project base)
Rear I/O Panel	DC-In power x 1 8-bit DIO x 1, 4-ch digital input, 4-ch digital output RS-232/422/485 x 2 DP x 1 Audio Line-out x 1, Mic-In x 1 Micro SIM slot x 2
Storage	
HDD Tray	2.5" HDD/SSD Bay x 1
CF/CFast/mSATA Slot	—
Environmental	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	10%~80% @40°C, non-condensing
Vibration/Shock	MIL-STD-810G
Certification	CE & FCC Class A, E-Mark (In-vehicle config. by project base)
Power Requirement	
Power Supply	DC 12-24V; DC9-36V with power ignition (In-vehicle config. by project base)
Mechanical	
Removable HDD Tray	—
Internal System HDD Bay	—
Dimension	6.3" x 5.28" x 2.44" (160mm x 134mm x 62mm)
Gross Weight	3.96 lb (1.8 kg)
Note	—

Dimension

Unit: mm



Ordering Information

Part Number	Processor	RAM	Cooler	Storage	RAID Support	Display	LAN	PoE	USB	RS-232	RS-232/422/485	Expansion Slot	Form Factor	Power
VPC-3350S-I4-A10-00	Intel® Atom®x5 E3940	DDR3L 204-pin SODIMM	Fanless	Supporting 2.5" SSD x 1 (Optional SKU: Supporting additional mSATA x1 & eMMC)	—	DP x 1, HDMI x 1	GbE x 1	4 Ports	USB 3.2 Gen 1 x 2	—	2	Mini-Card x 2	Desktop	DC 12-24V

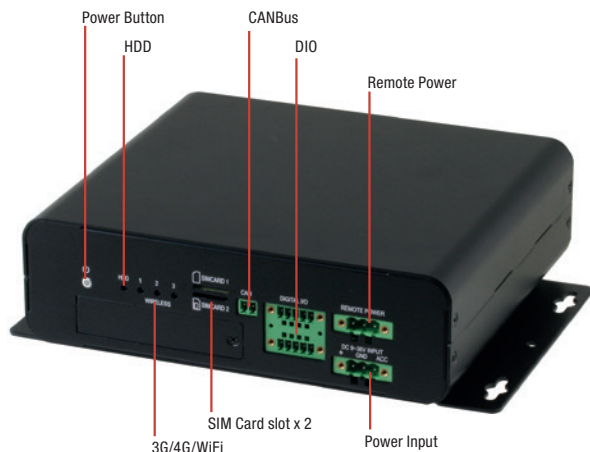
Packing List

- Wallmount bracket
- SATA cable x 1
- Power cable x 1 (for SATA)
- VPC-3350S

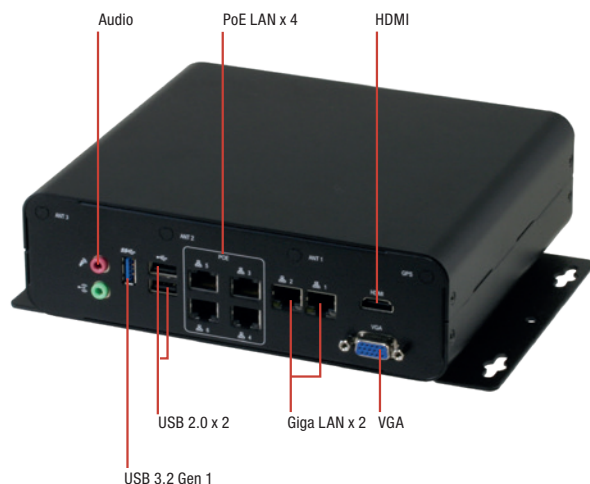
Optional Accessories

- **125590120B**
Adapter. AC/DC input AC 100-240 output DC 19V 6.32A 120W
- **9741236A00**
WiFi Module Kit, 802.11ac/a/b/g/n + BT4.2, (SparkLan.WPET-236ACN(BT), USB Signal, with Cable & Antenna
- **17599RFA0B**
WiFi Antenna
- **1700010252**
WiFi Coaxial Cable
- **978966660G**
GPS Antenna
- **9741EG25G0**
PCIe Mini Card, 4G LTE Module kit for global band w/ Cable & Antenna, Quectel EG25-G

Front View



Rear View



Features

- In-Vehicle Network Video Recorder Platform
- Fanless System
- 204-pin Single Channel DDR3L 1600 MHz SODIMM up to 8 GB
- Intel® Integrated Graphics Engine Supports Dual Independent Display by VGA x 1, HDMI x 1
- Realtek® Ethernet Connection x 6 w/4 Port PoE
- Mini-PCIe Socket x 3 (Full Card Size) , (1 x w/ USB)
- Built-in CAN 2.0B. Optional OBDII Function (SAE J1939/J1708)(UART Interface)
- EMARK Certified

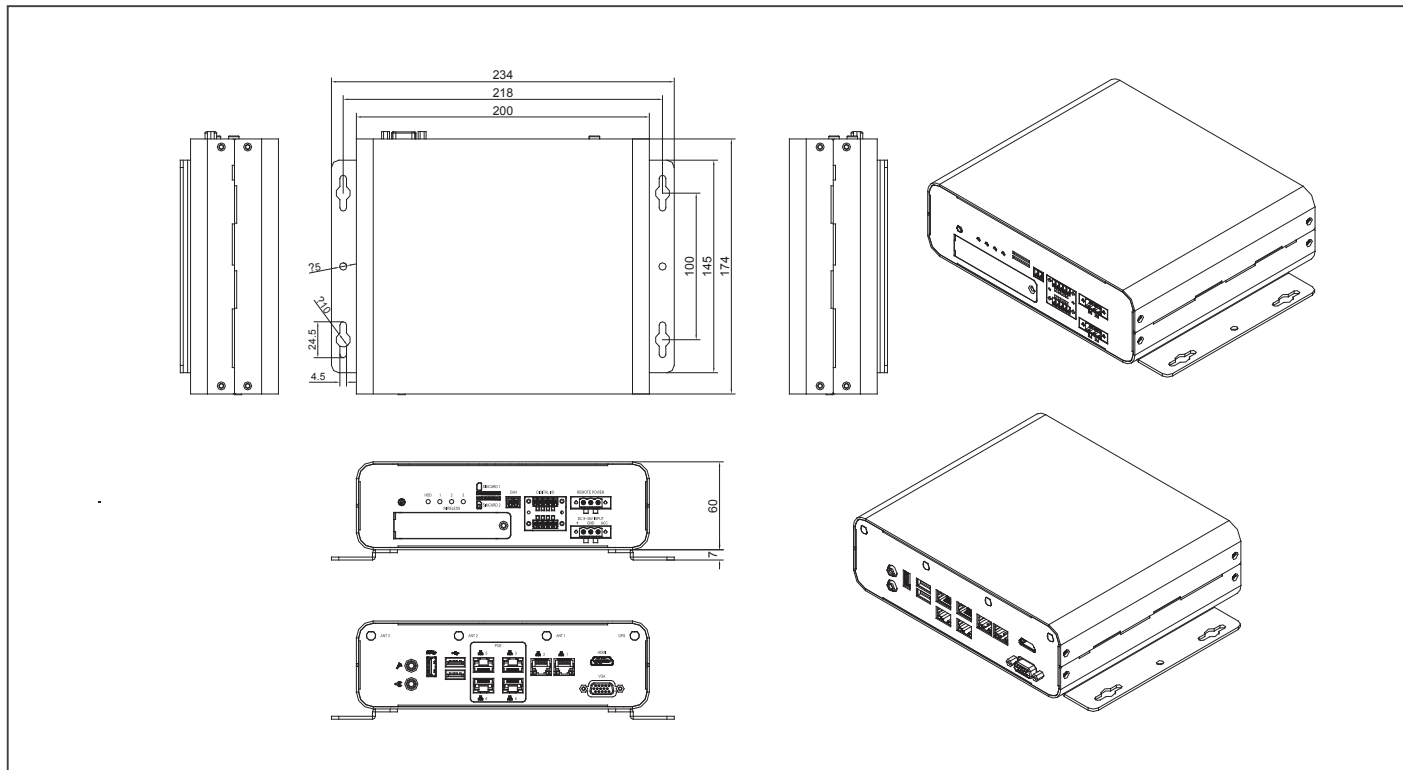


Specifications

System	
Form Factor	In-Vehicle NVR
Processor	Intel® Celeron® J1900 Processor
Chipset	Quad Core SoC
Main Memory	Up to 8GB, DDR3L 204-pin SODIMM
Display	VGA x 1, HDMI x 1
Ethernet	10/100/1000Base-TX x 6
PoE Ethernet Port	4 ports, RJ-45 ports support IEEE 802.3 at/af with total PoE Power budget of 60W
RAID support	—
Expansion Slot	Mini-Card x 3, Built-in CAN 2.0B x 1
GPS, G-Sensor	On board (GPS/GLONASS)
Front I/O Panel	Power Button x 1 Power Input x 1 Remote Power x 1 3G/4G/WiFi LED x 3 SIM slot x 2 HDD LED x 1 CanBus connector x 1 8bit DIO x 1, 4-ch digital input (Wet/dry contact with Isolation Protection 3,000 VDC) , 4-ch digital output (Compatible 5 V/TTL, 31 mA max. per channel)
Rear I/O Panel	VGA out x 1, HDMI x 1 GbE port (RJ-45) x 2 PoE LAN x 4 USB2.0 x 2, USB 3.2 Gen 1 x 1 Audio Line-out x 1, Mic-In x 1
Storage	
HDD Tray	2.5" HDD/SSD Bay x 1
CF/CFast/mSATA Slot	mSATA Slot x 1 (default; colay w/ 2.5" HDD x 1)
Environmental	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	10%~80% @40°C, non-condensing
Vibration/Shock	MIL-STD-810G
Certification	CE & FCC Class A, EMARK
Power Requirement	
Power Supply	DC 9-36V, with Ignition Pin
Mechanical	
Removable HDD Tray	2.5" HDD x 2 (Optional, MOQ apply)
Internal System HDD Bay	2.5" HDD x 1 (Optional SKU if support HDD x 2)
Dimension	6.85" x 7.87" x 2.36" (174mm x 200mm x 60mm)
Gross Weight	5.7 lb (2.6 kg)
Note	—

Dimension

Unit: mm



Ordering Information

Part Number	Chipset	RAM	Cooler	Storage	Display	LAN	PoE	USB	RS-232	RS-232/422/485	Expansion Slot	Form Factor	Power
VPC-3300S-I4-A10-W1	Intel® J1900 SoC	8 GB, DDR3L 204-pin SODIMM	Fanless	2.5" HDD tray x 1, mSATA slot x 1 (Optional SKU if support HDD x 2)	VGA x 1, HDMI x 1	GbE x 6	4 Ports	USB 3.2 Gen 1 x 1, USB2.0 x 2	—	—	Mini-Card x 3 Built-in CAN2.0B x 1	Desktop	DC 9 - 36V
VPC-3300S-I4-A10-W11	Intel® J1900 SoC	2 GB, DDR3L 204-pin SODIMM	Fanless	2.5" HDD tray x 1, mSATA slot x 1 (Optional SKU if support HDD x 2)	VGA x 1, HDMI x 1	GbE x 6	4 Ports	USB 3.2 Gen 1 x 1, USB2.0 x 2	—	—	Mini-Card x 3 Built-in CAN2.0B x 1	Desktop	DC 9 - 36V
VPC-3300S-I4-A10-W12	Intel® J1900 SoC	4 GB, DDR3L 204-pin SODIMM	Fanless	2.5" HDD tray x 1, mSATA slot x 1 (Optional SKU if support HDD x 2)	VGA x 1, HDMI x 1	GbE x 6	4 Ports	USB 3.2 Gen 1 x 1, USB2.0 x 2	—	—	Mini-Card x 3 Built-in CAN2.0B x 1	Desktop	DC 9 - 36V

Packing List

- VPC-3300S

Optional Accessories

- **1255901204**
120W Adapter, AC Input, 19V DC for VPC Series
- **9741909A00**
WiFi Module Kit, 802.11 a/b/g/n + BT 4.0, (Bointec DPE-909AA), with Cable & Antenna
- **17599RFA0B**
WiFi Antenna
- **1700010252**
WiFi Coaxial Cable
- **978966660G**
GPS Antenna
- **9741809000**
3G Module Kit, with Cable and Antenna, Sierra, MC8090
- **17599RFA09**
3G Antenna
- **1700010255**
3G Coaxial Cable
- **9741EC20E0**
PCIe Mini Card, 4G LTE Module Kit for Europe/Asia, Quectel, EC20-E

Rugged Tablet Computers

10





Specifications

System Architecture	
Processor	Rockchip RK3288 1.6 GHz Quad Core Processor
Operating System	Android™ 6.0
Memory	Onboard DDR3L 2 GB
Storage	Onboard 16GB eMMC
Display	7" TFT-LCD/ 16:10, with Projected Capacitive Multi-Touch screen
I/O Port	DC-in jack x 1, MicroSD Card x 1, SIM card slot x 1, Mini USB x 1, MiniHDMI x 1, USB type A x 1, Built-in Speaker & Microphone x 1, 3.5mm stereo headphone jack x 1, 1D/2D Barcode scanner x 1 (optional), Magnetic Stripe Reader x 1 (optional), COM port x 1 + Ethernet x 1 (optional)
Communication	Bluetooth v4.0, Wi-Fi (802.11 b/g/n), NFC / RFID (13.56MHz), 3G (Optional)
Navigation	GPS, Glonass
WWAN(optional)	LTE*
Camera	8 MP auto-focus rear camera with flash

Features

- 7" WXGA (1280 x 800) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Rockchip RK3288 1.6 GHz Quad Core Processor
- DDR3L 2GB SDRAM
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Extended Battery Swappable, MIL-STD 810G, IP65 Compliant
- GPS/GLONASS Simultaneously
- WiFi b/g/n, Bluetooth V4.0
- Supports NFC/RFID, Ethernet + COM Port (Optional)
- 1D/2D Barcode Scanner with Trigger Button (Optional)
- MSR (Optional)/SCR (Optional)
- G-Sensor, Light Sensor, E-Compass
- Android 6.0



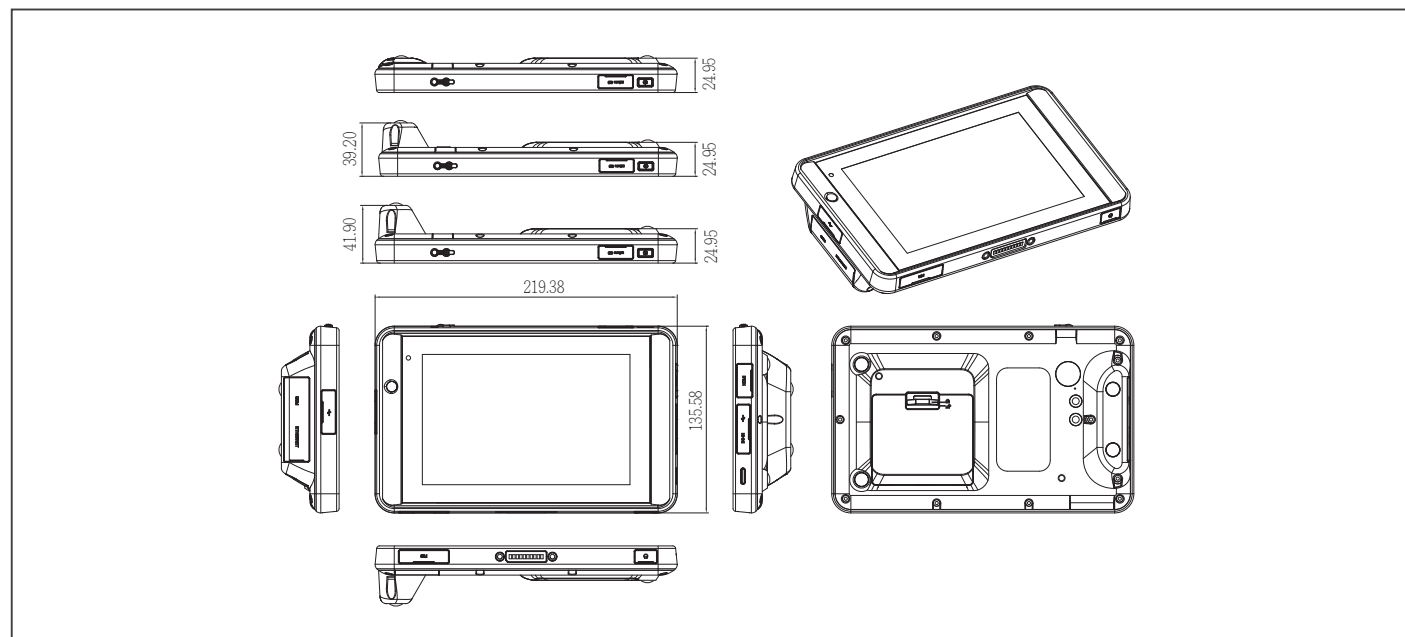
Sensor	S-sensor, E-compass, Gyroscope, Light-sensor
Expansion Slot	Docking
Barcode Scanner (Optional)	1D Scanner support CMOS engine (Optional), 2D Scanner support LED engine
HF RFID (Optional)	ISO 15693 (R/W) ISO 18092 (R/W) ISO 14443-A (R/W) ISO 14443-B (Only Read UID) Depend on card type
Physical Key	—
Mechanical	
Color	Black
Dimension (W x H x D)	5.38" x 8.58" x 0.83" (136.6mm x 219mm x 21mm)
Gross Weight	1.27lb (0.57kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	50°C; 5% ~ 90% R/H; 120 hours, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV - Height of Drop: 122cm (48 inch; 4ft), - Number of Drop: 26 times, - Floor: Two inch plywood backed by concrete, - For all surfaces, edges and corners
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL: UL60950-1, CE/LVD: EN60950-1, FCC, CE
Power Supply	
AC / DC Adapter	AC 100~240V, 50~60Hz ; DC 12V/3A (36W)
Battery Life	Li-polymer high capacity battery, up to 8 hours battery life
Master Battery	External battery: 7.4V 1530mah
Slave Battery	Removable battery: 7.4V 1530mah
Display	
LCD	7" TFT-LCD / 16:10, with LED backlight
Resolution	1280 x 800 pixel
Maximum Color	16.7M
Dot Size	0.117(W) x 0.117(H)
Brightness	400 nits; Sunlight Readable (Optional)**
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 87% (ASTM D1003; Wavelength = 550nm)

* LTE: the module adder need customization depends on different countries, please contact Sales Rep.

** Sunlight readable by optional Anti-Reflective bonding and optional anti-glare film.

Dimension

Unit: mm



Packing List

- **1255300367**
Power Adapter
- **9789600A00**
Battery

- **RTC-700RK**

*Power cord must be purchased separately.

Optional Accessories

- **1255900361**
Car Adapter, Flying Type
- **1255900360**
Car Adapter, Barrel Type
- **1700050156**
USB OTG Cable (Host to Device)
- **1702031830**
Power Cord Cable for USA
- **1700051000**
USB Cable (Client to PC)
- **1702031831**
Power Cable for Europe
- **PER-A151**
USB, COM and RJ45 Module
- **PER-A155**
MSR Module
- **PER-A156**
MSR and SCR Module
- **TF-RDS-0310-0000**
Docking Station(with Stand)
- **TF-RDS-0310-0002**
Docking Station(without Stand)
- **PER-A152**
COM and Ethernet + Module
- **PER-A153**
BCR Module
- **RDS-0040-0000**
4-Bay Battery Charger
- **9759700B00**
Hand Strap
- **9789700A04**
Leather Strap for RTC-700X w/ BCR or LAN
- **9741600R04**
Battery 2 Pcs in a Pack

* Small quantity MOQ may apply for optional/customized services.

Ordering Information

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/Bluetooth	4G Bands (MHz)	Navigation	Sensor	Camera	Battery	Expansion I/O	Size & Weight	Operation Temp	Durable	NFC (HF RFID)	2D Barcode Scanner	Com + Ethernet	Docking
RTC-700RK-TAD-WBGRLE-7101	Rockchip RK3288 1.6 GHz Quad Core Processor	7" TFT LCD	Pcap 10-point	DDR3L 2GB	16GB eMMC Flash	Android 6.0	802.11 b/g/n + BT4.0+ EDR	FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8	GPS/ Glonass/ AGPS	Light Sensor x 1, G Sensor x 1, 3-axis digital gyroscopex 1, Vibrator x 1	Back: 8MP	Dual-Battery, Internal: 7.4V, 1530mAh, External: 7.4V, 1530mAh	MiniHDMI x 1, MiniUSB x 1, micro SD x 1, SIM Card x 1	L 219.4 x W 135.58 x H 39.2 mm, 640g	-4°F ~ 140°F (-20°C ~ 60°C)	Meet IEC 60529 IP-65 standard, MIL Std 810G-516.6, Procedure IV, 26 drops of 48" height to 2" plywood over concrete with bumpers & uNits off, 2 units to pass	Yes	Yes	—	Yes
RTC-700RK-TAD-WBGRLE-7102		7" TFT LCD	Pcap 10-point	DDR3L 2GB	16GB eMMC Flash	Android 6.0	802.11 b/g/n + BT4.0+ EDR													
RTC-700RK-TAD-WBG-7100		7" TFT LCD	Pcap 10-point	DDR3L 2GB	16GB eMMC Flash	Android 6.0	802.11 b/g/n + BT4.0+ EDR													

7" Rugged Tablet X86-based Windows® 10 up to 1.92 GHz Quad Core Processor



Specifications

System Architecture	
Processor	Intel® Atom™ X5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor
Operating System	Windows® 10
Memory	Onboard 2GB DDR3L (4G Optional)
Storage	Onboard 64GB eMMC
Display	7" TFT-LCD/ 16:10, with Projected Capacitive Multi-Touch screen
I/O Port	DC-in jack x 1, MicroSD Card x 1, SIM card slot x 1, USB 2.0 x 2 (A Type x 1, Mini USB x 1), USB 3.2 Gen 1 x 1 (Type C), Built-in Speaker & Microphone x 1, 3.5mm stereo headphone jack x 1, 1D/2D Barcode scanner x 1 (Optional), Magnetic Stripe Reader x 1 (Optional), COM port x 1 + Ethernet x 1 (Optional)
Communication	Bluetooth v4.0, Wi-Fi (802.11 b/g/n), NFC / RFID (13.56MHz), 3G (Optional)
Navigation	GPS, Glonass
WWAN(optional)	LTE*
Camera	2 MP front camera, 8 MP auto-focus rear camera with flash

Features

- 7" WXGA (1280 x 800) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor
- DDR3L - RS 1600 2GB/4GB (Optional)
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Extended Battery Swappable, MIL-STD 810G, IP65 Compliant
- GPS/GLONASS Simultaneously
- WiFi b/g/n, BT4.0
- Supports NFC/RFID (Optional), Ethernet + COM Port (Optional)
- 1D/2D Barcode Scanner with Trigger Button
- MSR (Optional)/ SCR (Optional)
- G-Sensor, Light Sensor, E-Compass
- Windows® 10



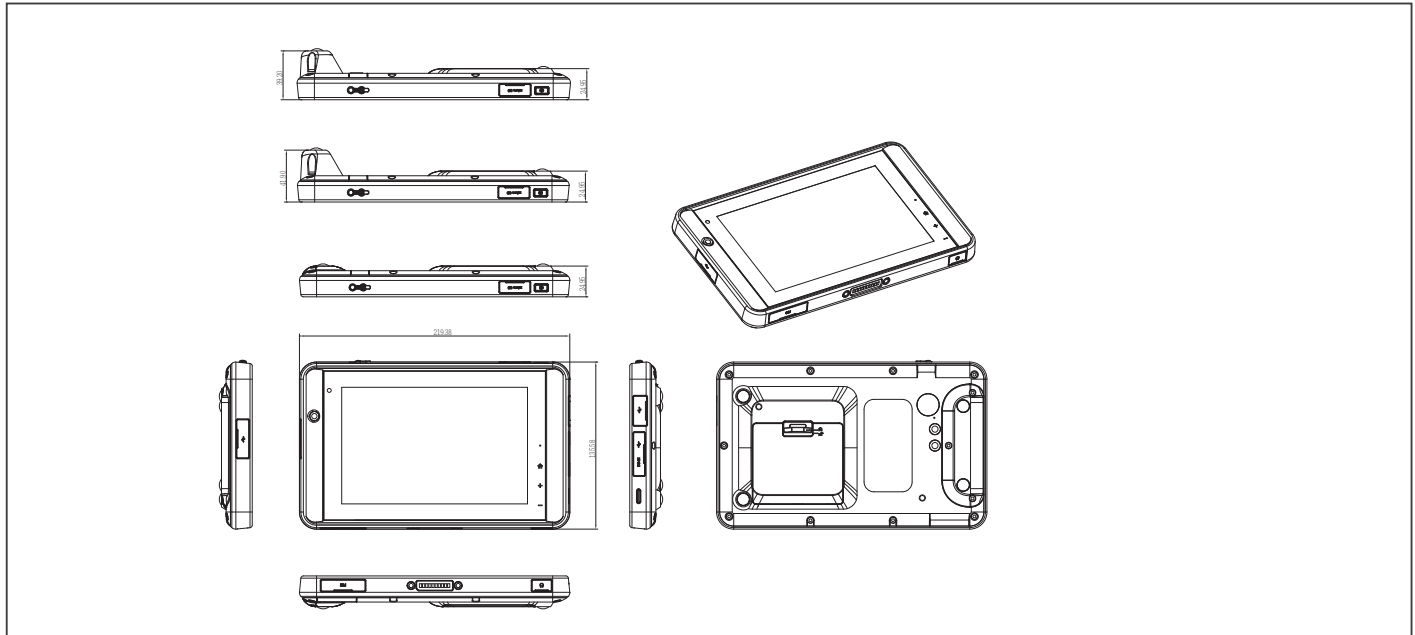
Sensor	G-sensor, E-Compass, Gyroscope, Light-sensor
Expansion Slot	Docking
Barcode Scanner (Optional)	1D Scanner support CMOS engine (Optional), 2D Scanner support LED engine
HF RFID (Optional)	ISO 15693 (R/W) ISO 18092 (R/W) ISO 14443-A (R/W) ISO 14443-B (Only Read UID) Depend on card type
Physical Key	—
Mechanical	
Color	Black
Dimension (W x H x D)	5.38" x 8.58" x 0.83" (136.6mm x 219mm x 21mm)
Gross Weight	1.254 lb (0.57 kg)
Environmental	
Operating Temperature	-4 °F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-67°F ~ 158°F (-55 °C ~ 70 °C)
Humidity	50°C; 5% ~ 90% R/H; 120 hours, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV - Height of Drop: 122cm (48 inch; 4ft), - Number of Drop: 26 times, - Floor: Two inch plywood backed by concrete, - For all surfaces, edges and corners
ESD	Up to Air charge: +/- 15KV, Contact charge: +/- 8KV
Certifications and Standards	UL: UL60950-1, CE/LVD: EN60950-1, FCC, CE
Power Supply	
AC / DC Adapter	AC 100~240V, 50~60Hz ; DC 12V/3A (36W)
Battery Life	Dual li-polymer high capacity batteries, up to 5 hours battery life
Master Battery	External battery: 7.4V 1530mah
Slave Battery	Removable battery: 7.4V 1530mah
Display	
LCD	7" TFT-LCD / 16:10, with LED backlight
Resolution	1280 x 800 pixel
Maximum Color	16.7M
Dot Size	0.117 x 0.117(H)
Brightness	400 nits; Sunlight Readable (Optional)**
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 87% (ASTM D1003; Wavelength = 550nm)

* LTE: the module adder need customization depends on different countries, please contact Sales Rep.

** Sunlight readable by optional Anti-Reflective bonding and optional anti-glare film.

Dimension

Unit: mm



Packing List

- **1255300367**
AC Power Adapter
- **9789600A00**
Battery
- **RTC-700B**

*Power cord must be purchased separately.

Optional Accessories

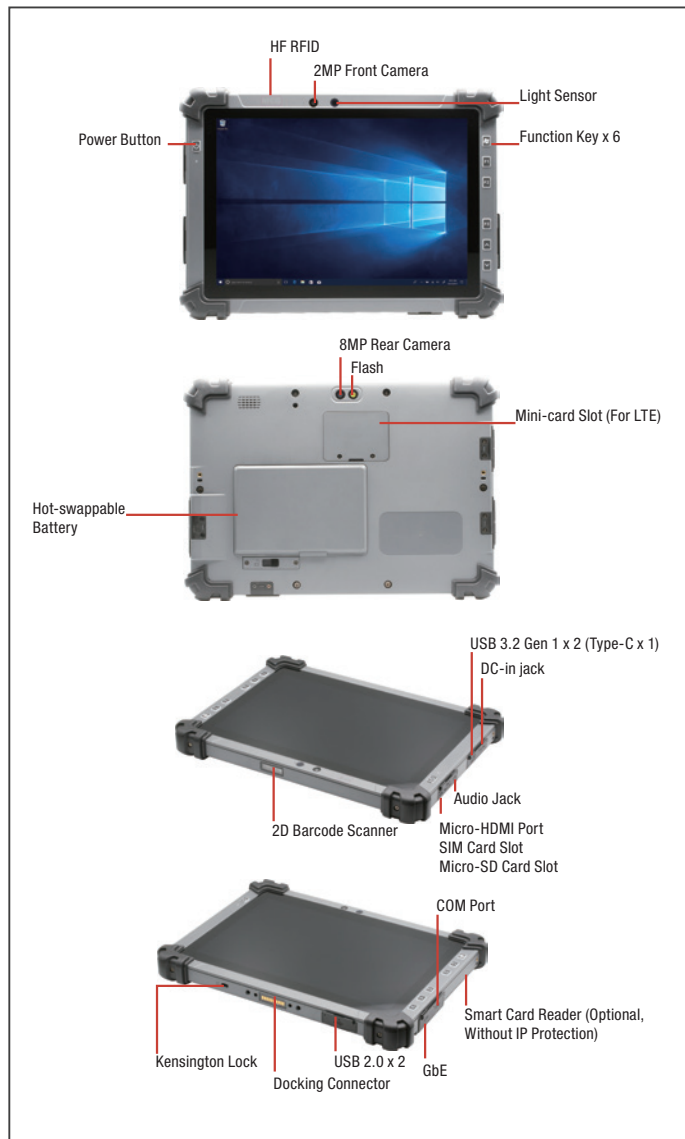
- **9759700B00**
Hand strap
- **9789700A04**
Leather Strap for RTC-700x w/
Barcode, or LAN used
- **1700051000**
USB Cable (Client to PC)
- **1700240150**
USB Dongle Type C to HDMI
- **1702031831**
Power Cable for Europe
- **1702031830**
Power Cord Cable for USA
- **PER-A151**
USB, COM and RJ-45 Module
- **PER-A152**
COM and Ethernet Module
- **PER-A153**
Barcode Module
- **PER-A155**
MSR Module
- **PER-A156**
MSR and SCR Module
- **TF-RDS-0310-0000**
Docking Station (with Stand)
- **TF-RDS-0310-0002**
Docking Station (without Stand)
- **9741600R04**
Battery 2 PCS in a pack
- **RDS-0040-0000**
4-Bay Battery Charger
- **1255900360**
Car Adapter, Barrel Type
- **1255900361**
Car Adapter, Flying Type

* Small quantity MOQ may apply for optional/customized services.

Ordering Information

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/Blue-tooth	4G Bands (MHz)	Navigation	Sensor	Camera	Battery	Expansion I/O	Size & Weight	Operation Temp	Durable	2D Barcode Scanner	Com + Ethernet	Docking
RTC-700B-TAD-WBGL-11A1	Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	7" TFT LCD	Pcap 10-point	DDR3L-RS 1600 2GB	64GB Flash eMMC	Windows® 10	802.11b/g/n +BT4.0+EDR		GPS/ Glonass/ AGPS*	Light Sensor x 1, G Sensor x 1, 3-axis digital groscope x 1, Vibrator x 1	Front: 2MP, Back: 8MP	Dual-Battery, Internal: 7.4V,1530mAh, External: 7.4V, 1530mAh				Meet IEC 60529 IP-65 standard, Mil Std 810G-516.6, Procedure IV, 26 drops of 48" height to 2" plywood over concrete with bumpers & uNits off, 2 units to pass	Yes	—	Yes
RTC-700B-TAD-WBGL-11A2	Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	7" TFT LCD	Pcap 10-point	DDR3L-RS 1600 2GB	64GB Flash eMMC	Windows® 10	802.11b/g/n +BT4.0+EDR	FDD LTE: B1/B3/B5/ B7/B8/B20 TDD LTE: B38/B40/ B41 WCDMA: B1/ B5/B8 GSM: B3/B8	GPS/ Glonass/ AGPS*	Light Sensor x 1, G Sensor x 1, 3-axis digital groscope x 1, Vibrator x 1	Front: 2MP, Back: 8MP	Dual-Battery, Internal: 7.4V,1530mAh, External: 7.4V, 1530mAh	USB A x 1, MiniUSB x 1, USB 3.2 Gen 1 x 1, micro SD x 1, SIM Card x 1	L219.4 x W135.58 x H 21.2mm, 640g	-4°F ~ 122°F (-20°C ~ 50°C)	—	Yes	Yes	
RTC-700B-TAD-WBGL-11A0	Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	7" TFT LCD	Pcap 10-point	DDR3L-RS 1600 2GB	64GB Flash eMMC	Windows® 10	802.11b/g/n +BT4.0+EDR		GPS/ Glonass/ AGPS*	Light Sensor x 1, G Sensor x 1, 3-axis digital groscope x 1, Vibrator x 1	Front: 2MP, Back: 8MP	Dual-Battery, Internal: 7.4V,1530mAh, External: 7.4V, 1530mAh				—	—	Yes	

10.1" Rugged Tablet Features with Intel® N3350/N4200 Processor with Windows®/ Android



Specifications

System Architecture	
Processor	Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz
Operating System	Windows® 10 IOT Enterprise SAC / Android 9.0
Memory	Onboard DDR3L 4GB (Default)
Storage	eMMC 64GB (mSATA III up to 512GB via inside mini-card slot, Optional)
Display	10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1, Smart card reader x 1 (Optional, Without IP protection)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v4.2 (EDR+BLE)
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS or BeiDou (Optional)
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	Inside mini-card slot x 1, Mini-card slot x 1, Docking connector: USB 2.0 x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (Optional)	ISO 15693 (R/W) ISO 18092 (R/W) ISO 14443-A (R/W) ISO 14443-B (Only Read UID) Depend on card type

Features

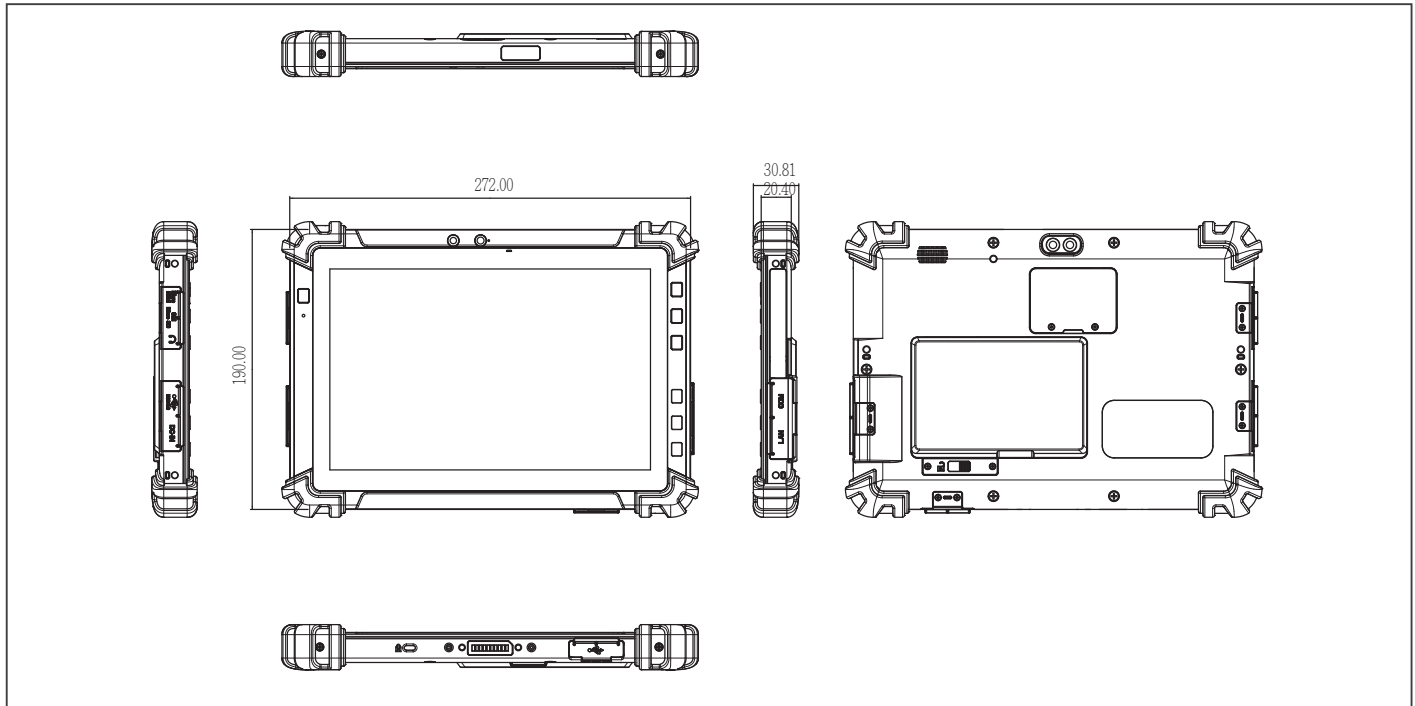
- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1 GHz Dual Core Up to 2.4 GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- HF RFID Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT / Android 9



Physical Key	F0 or Windows (Windows Start Key), F1(BCR Trigger Button (When BCR is enabled)), F2(Screenprint), F3(Ctrl+Alt+Del as Soft Reboot), Volume Up, Volume Down
Mechanical	
Color	Black & Dark Grey
Dimension (W x H x D)	10.71" x 7.48" x 0.80" (272.0 mm x 190.0 mm x 20.4 mm)
Gross Weight	2.2 lb (1.0 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating) ASTM 4169-99 Truck Assurance Level II, Schedule E (Unit is non-operating)
Drop	MIL-STD-810G-516.6, Procedure IV Drop height: 122 cm Number of Drop: 26 times, for all surfaces, edges and corners Condition: Based on 2" plywood over concrete
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL60950-1, CE, FCC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	7.4V, 1530mAh, 11.3W
Display	
LCD	10.1" TFT-LCD/ 16:10 with LED backlight
Resolution	1280 x 800
Maximum Color	N/A
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nits (800 nits optional)
Viewing Angle	Horizontal: 170° (Typ.), Vertical: 170° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 85%

Dimension

Unit: mm



Packing List

- 12V Power Adaptor
 - RTC-1010
- *Power cord must be purchased separately.

Optional Accessories

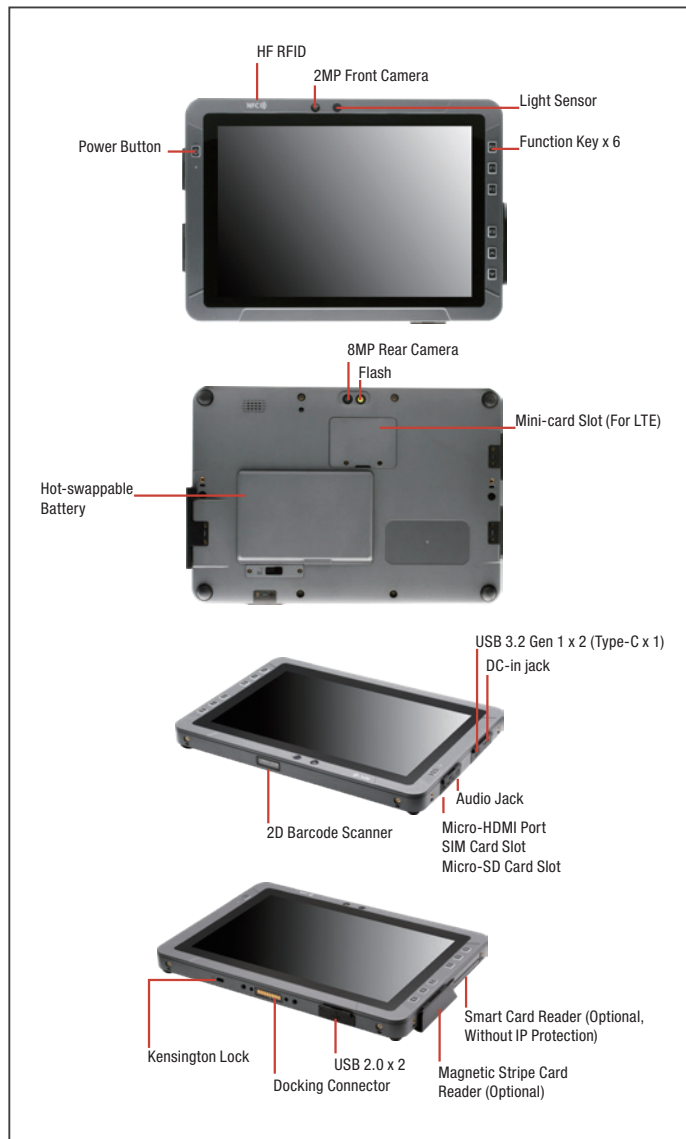
- **RDS-411-000**
Docking Station
- **RDS-411-001**
Docking Station, W/ Stand
- **RBC-1200-000**
4-bay Battery Charger
- **RTC-1010-HS-000**
Hand Strap
- **RTC-1010-SB-000**
Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh, 2 pcs/Box
- **1255900363**
DC-To-DC Power Adaptor, Flying Wires
- **1255900364**
DC-To-DC Power Adaptor, Cigarette Plug

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	HF RFID	Battery	Power
RTC-1010-R0004	N3350	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 2MP	—	—	32.7W	DC12V
RTC-1010-R0005	N3350	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	—	—	32.7W + 11.3W	DC12V
RTC-1010-R0001	N3350	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-R0003	N4200	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-RH0005	N3350	Windows® 10 IoT	10.1" 800 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	—	—	32.7W + 11.3W	DC12V
RTC-1010-RH0003	N4200	Windows® 10 IoT	10.1" 800 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-R0003A	N4200	Android 9	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V

RTC-1010M

10.1" Semi-rugged Tablet Features With Intel® N3350 / N4200 Processor With Windows® / Android



Specifications

System Architecture	
Processor	Intel® Celeron™ N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium™ N4200 1.1GHz Quad core up to 2.5GHz
Operating System	Windows® 10 IOT Enterprise SAC / Android 9.0
Memory	Onboard DDR3L 4GB (Default), up to 8GB
Storage	eMMC 64GB (mSATA III up to 512GB via inside mini-card slot, Optional)
Display	10.1" WXGA (1280x800) 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM port x 1 (Optional), 10/100/1000 Base-T RJ45 x 1 (Optional), Smart card reader x 1 (Optional, Without IP protection), MSR reader x 1 (Optional, Without IP protection)
Communication	Wi-Fi 802.11 b/g/n Bluetooth v4.2 (EDR + BLE)
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS or BeiDou (Optional)
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2MP front camera 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	Inside mini-card slot x 1, Mini-card slot x 1, Docking connector: USB 2.0 x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)

Features

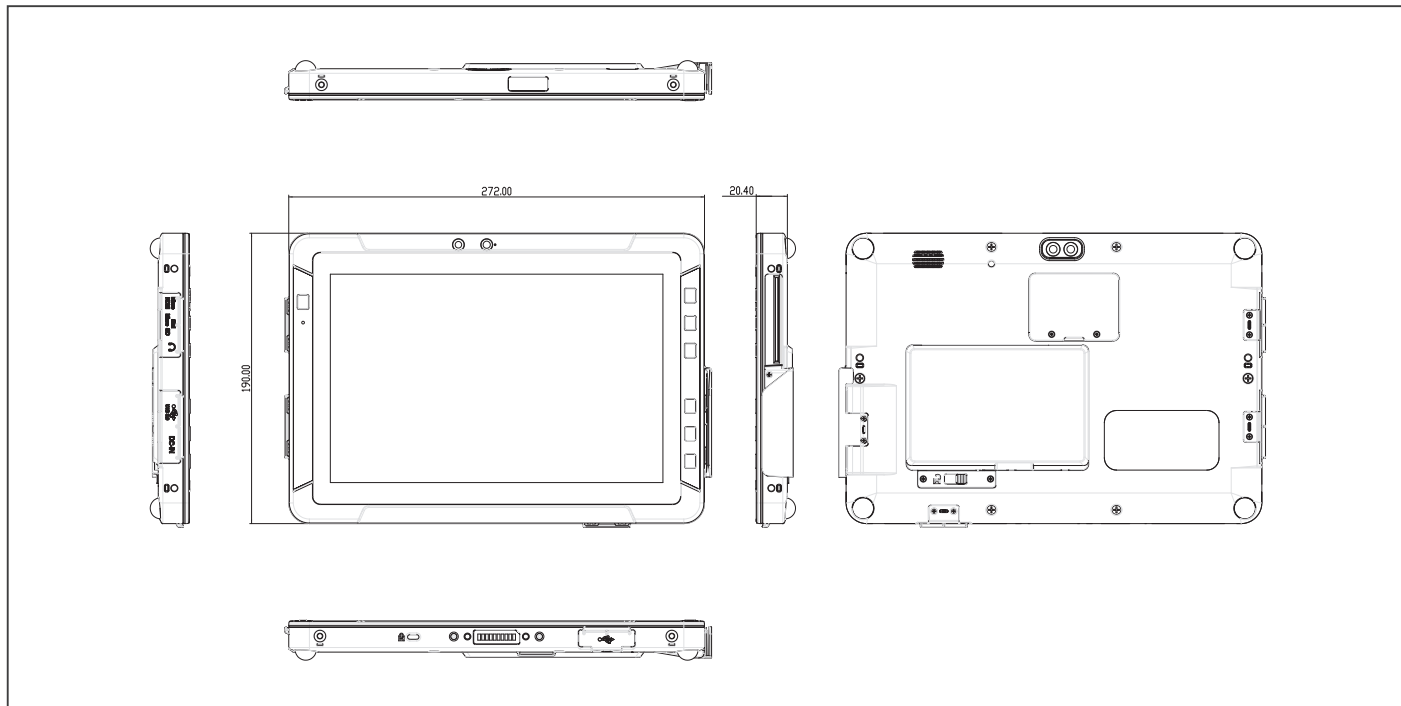
- 10.1" WXGA (1280 x 800) 300-nit TFT LCD (Default)
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45 (Optional)
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- HF RFID Reader (Optional)
- MSR Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- IP54 Compliant, Drop 76cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT / Android 9



HF RFID (Optional)	ISO 15693 (R/W) ISO 18092 (R/W) ISO 14443-A (R/W) ISO 14443-B (Only Read UID) Depend on card type
Physical Key	F0 or Windows (Windows Start Key), F1(BCR Trigger Button (When BCR is enabled)), F2(Screenprint), F3(Ctrl+Alt+Del as Soft Reboot), Volume Up, Volume Down
Mechanical	
Color	Black & Dark Grey
Dimension (W x H x D)	10.71" x 7.48" x 0.80" (272.0 mm x 190.0 mm x 20.4 mm)
Gross Weight	2.1 lb (0.95 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP54
Vibration	—
Drop	Drop height: 76 cm Condition: Based on 2" plywood over concrete
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL60950-1, CE, FCC
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	7.4V, 1530mAh, 11.3W
Display	
LCD	10.1" TFT-LCD/ 16:10 with LED backlight
Resolution	1280 x 800
Maximum Color	N/A
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nit (800 nits optional)
Viewing Angle	Horizontal: 170° (Typ.), Vertical: 170° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 85%

Dimension

Unit: mm



Packing List

- 12V Power Adaptor
- RTC-1010M

*Power cord must be purchased separately.

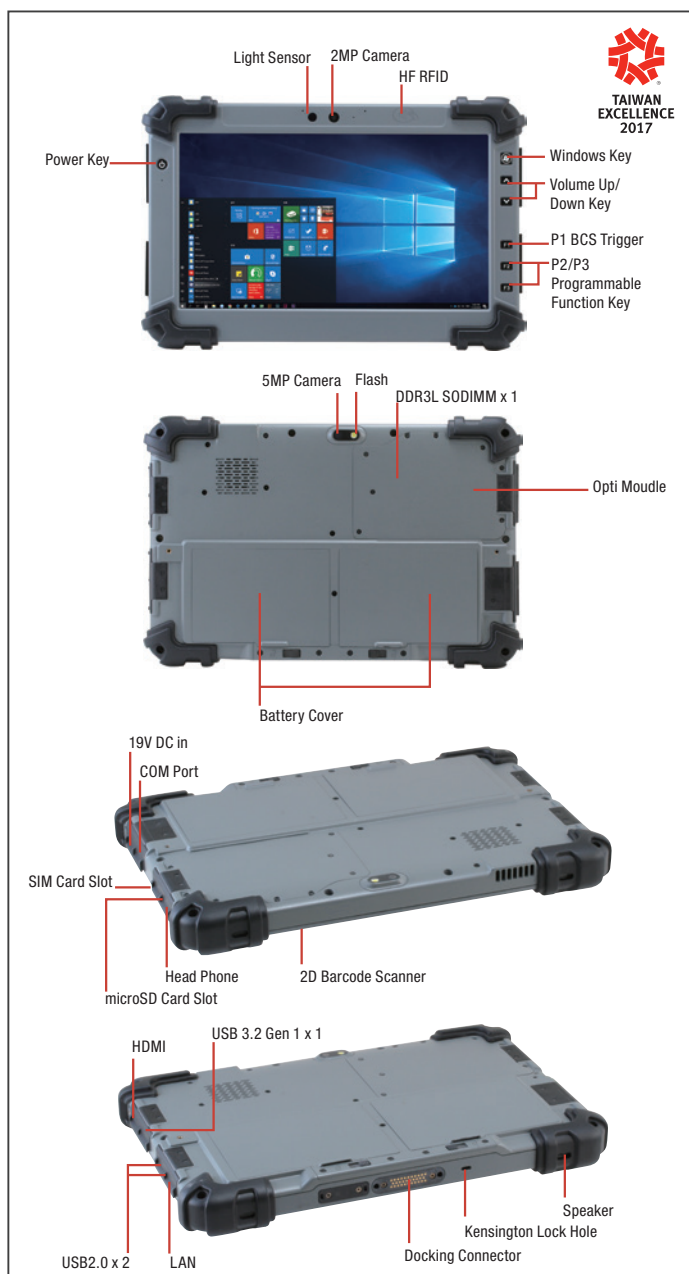
Optional Accessories

- **RDS-411-000**
Docking Station
- **RDS-411-001**
Docking Station, W/ Stand
- **RBC-1200-000**
4-bay Battery Charger
- **RTC-1010-HS-000**
Hand Strap
- **RTC-1010-SB-000**
Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
Battery Pack, 14.4V, 2270mAh, 2 pcs/Box

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/ Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	SCR	HF RFID	MSR	Battery	Power
RTC-1010-M0002	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	N/A	—	Front: 2MP	—	—	—	—	32.7W	DC12V
RTC-1010-M0001	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/ Galileo/ GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-M0003	N4200	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1 RS-232/422/485 COM Port x 1 10/100/1000 Base-T RJ45 x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/ Galileo/ GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	—	Yes	—	32.7W + 11.3W	DC12V
RTC-1010-M0002A	N3350	Android 9.0	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	N/A	—	Front: 2MP	—	—	—	—	32.7W	DC12V

11.6" Rugged Tablet Features Intel® Kaby Lake Up To 3.9 GHz Dual Core Processor with Windows® 10



Features

- 11.6" FHD (1920 x 1080) 300-nit / 1000-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U Up to 3.9 GHz
- One DDR3L SODIMM Socket, Up to 8GB
- One M.2 Slot for SSD, 64GB (Default)
- Projective Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 1, USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- HF RFID Reader (Optional)
- Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, F1, F2, F3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT (Windows® 7 for Skylake, Optional)



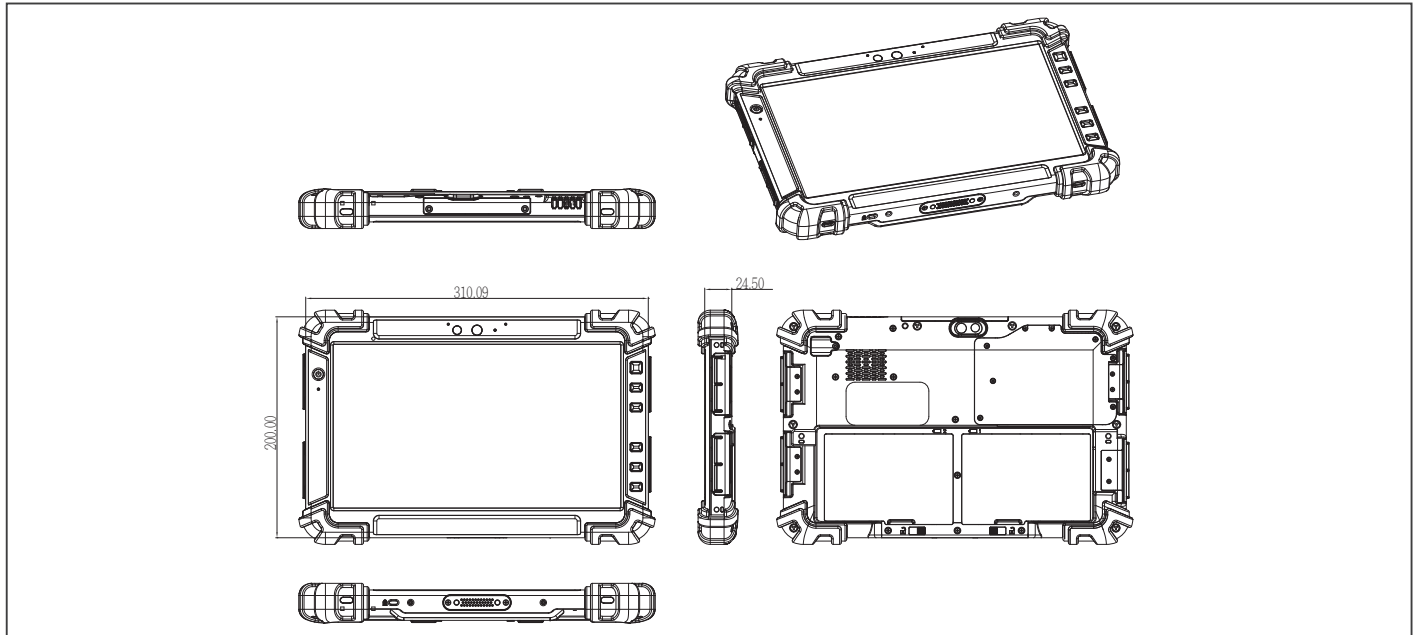
Expansion Slot	Docking connector x 1, GNSS antenna Pass-through connector x 1, WWAN antenna Pass-through connector x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
HF RFID (Optional)	ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
Physical Key	F0 or Windows (Windows Start Key), F1(Ctrl+Alt+Del & Barcode Scanner Trigger), F2 (Touch Mode Switch), F3 (PrtSc/printscreen), Volume Up, Volume Down
Mechanical	
Color	Gray & Black
Dimension (W x H x D)	12.36" x 7.87" x 0.96" (310.4mm x 200mm x 24.5mm)
Gross Weight	3.3 lbs (1.5 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	50°C; 5% ~ 90% R/H; 120 hours, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV - Height of Drop: 122cm (48 inch; 4ft), - Number of Drop: 26 times, - Floor: Two inch plywood backed by concrete, - For all surfaces, edges and corners
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL: UL60950-1, CE/LVD: EN60950-1, FCC, CE
Power Supply	
AC / DC Adapter	AC 100~240V, 50~60Hz ; DC 19V/3.42A (65W)
Battery Life	Dual Li-ion High Capacity Batteries, up to 10 Hours Battery Life
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Display	
LCD	11.6" TFT-LCD/ 16:9, with LED backlight
Resolution	1920 x 1080 pixel
Maximum Color	16.7M
Dot Size	0.117 x 0.117(H)
Brightness	1000 nits; 300 nits (Optional)
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	11.6" Projected Capacitive Multi-Touch Screen Gloves / Finger Switchable by F2
Light Transmission	Min 87% (ASTM D1003; Wavelength = 550 nm)

Specifications

System Architecture	
Processor	Intel® Core™ i 7100U / 7300U Dual Core up to 3.9GHz Intel® Celeron® 3965U Dual Core 2.2GHz Processor
Operating System	Windows® 10 IoT Enterprise 64bit (Default) Windows® 7 for Skylake (Optional)
Memory	DDR3L SODIMM Socket x 1, up to 8GB
Storage	M.2 (NGFF) SSD, 64GB (Default)
Display	11.6" FHD (1920x1080) 300-nit / 1000-nit TFT-LCD With Projected Capacitive Multi-Touch Screen
I/O Port	HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 1 (Type A), USB 2.0 x 2 (Type A), DC-in Jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v4.1
Navigation	GPS, GLONASS
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2 MP front camera, 5 MP auto-focus rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/ Blue-tooth	LTE Bands (MHz)	Navigation	Sensor	Camera	Battery	Power	Expansion I/O	Size & Weight	Operation Temp	Durable	HF RFID	2D Barcode Scanner	Docking
RTC-1200-R0001	Intel® Celeron® 3965U	11.6" 300 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V		310.4 mm x 200 mm x 24.5 mm, 1.5kg	-4°F ~ 140°F (-20°C ~ 60°C)		—	—	Yes
RTC-1200-RH0002	Intel® Core™ i3 7100U	11.6" 1000 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V	HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 x 1, USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1	310.4 mm x 200 mm x 24.5 mm, 1.5kg	-4°F ~ 140°F (-20°C ~ 60°C)	Meet IEC 60529 IP-65 standard MIL Std 883C-2000, Procedure IV MIL Std 883C-2000, Procedure I 26 drops of 48" height to 2" plywood over concrete with bumpers & unit off 2 units to pass	Yes	—	Yes
RTC-1200-RH0003	Intel® Core™ i3 7100U	11.6" 1000 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V		310.4 mm x 200 mm x 24.5 mm, 1.5kg	-4°F ~ 140°F (-20°C ~ 60°C)		Yes	Yes	Yes
RTC-1200-RH0004	Intel® Core™ i5 7300U	11.6" 1000 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V		310.4 mm x 200 mm x 24.5 mm, 1.5kg	-4°F ~ 140°F (-20°C ~ 60°C)		Yes	—	Yes

Packing List

- 125530065A Adapter

- RTC-1200

*Power cord must be purchased separately.

Optional Accessories

- RTC-1200HSP01-000 Rotating Hand-Strap
- RTC-1200BLT01-000 Shoulder Belt 2-point
- RTC-1200BLT02-000 Shoulder Belt 4-point
- RTC-1200SPC01-000 Swivel portfolio case
- RTC-1200-STSO2-000 Active Stylus
- RTC-1200BAT01-000 Batteries x 2/ Box
- RTC-1200BKT01-000 Mount Bracket (VESA/RAM)
- RBC-1200-000 Battery Charger
- RDS-241V-0000/0001 Vehicle Docking

* Small quantity MOQ may apply for optional/customized services.

RDS-411

Rugged Docking Station for RTC-1010/ RTC-1010M



Features

- Apply on RTC-1010/ RTC-1010M
- Front-facing I/Os: USB 2.0 x 2 with Protection Cover
- Downward-facing I/Os for Easy Cable Management: USB 2.0 x 2, RS-232 x 1 (Two: Optional), RJ45 GbE x 1, DC-in Phoenix Connector x 1
- Wide Voltage Input: 9VDC ~ 36VDC
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft Lock with Key & VESA Mount

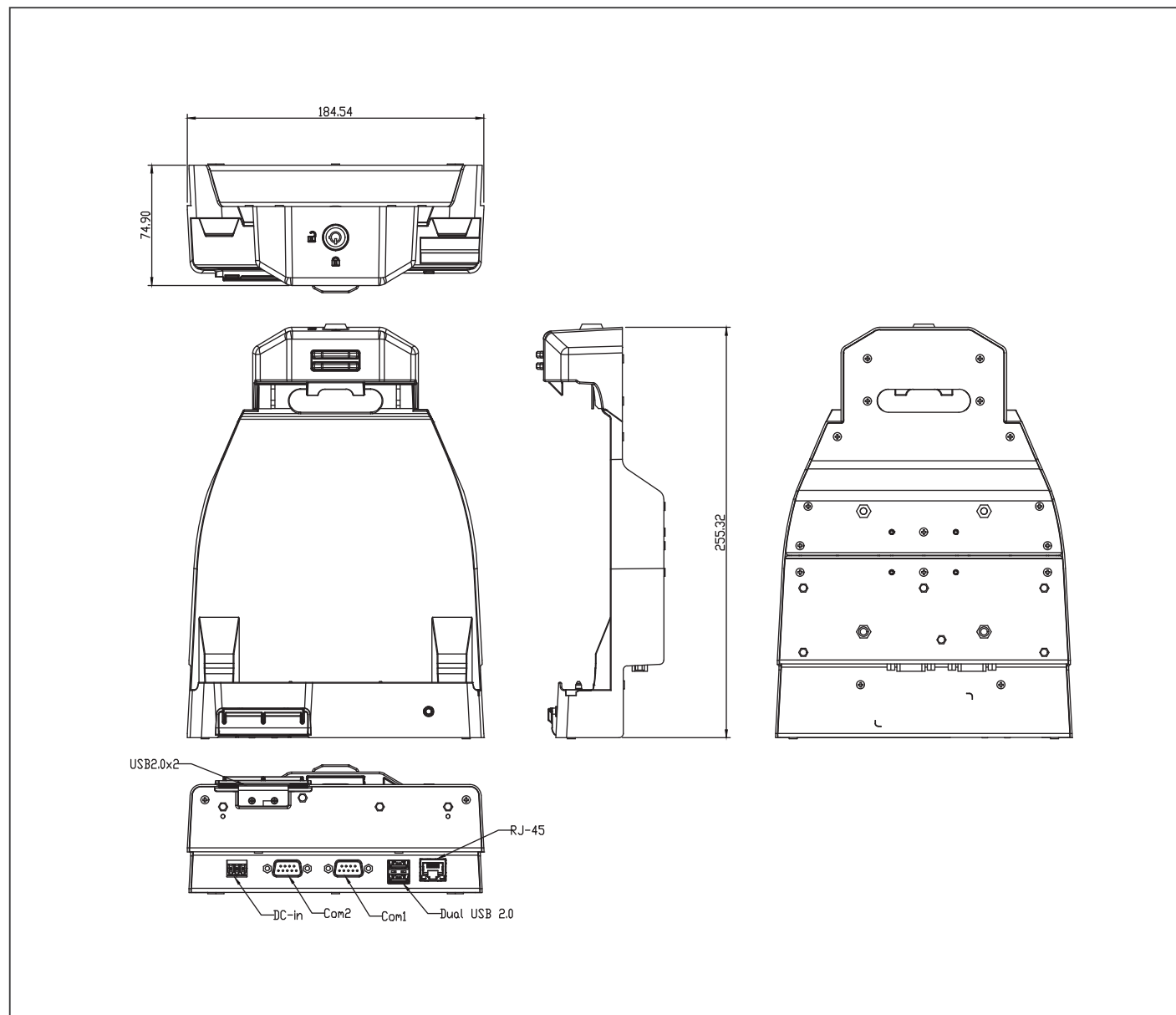


Specifications

System	
I/O	Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 2.0 x 2 RS-232 x 1 (Two: Optional) RJ45 GbE x 1
DC Input	Phoenix connector: DINKLE ECH381H-03P Wide Voltage Input: DC 9V to 36V Mating connector: DINKLE EC381V-03P
LED Indicator	Orange: DC in w/o Tablet Blue: DC in w/ Tablet
Others	Anti-theft lock with key & VESA mount
Mechanical	
Color	Black
Construction	PC
Dimensions (W x H x D)	10.08" x 7.28" x 2.96" (256 x 185 x 75 mm)
Gross Weight	6.17 lb (2.8 Kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)
ESD	Air charge: +/- 8KV Contact charge: +/- 4KV
EMC/ Safety	CE/FCC Class B/UL
Power Supply	
AC/DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W DC connector: DINKLE EC381V-03P
DC/DC Adapter	N/A

Dimension

Unit: mm



Ordering Infomation

- **RDS-411-000**
Docking Station.USBx4.RS-232.RJ45.DC Connector.9-36V Input
- **RDS-411-001**
Docking Station.USBx4.RS-232.RJ45.DC Connector.9-36V Input.W/ Stand

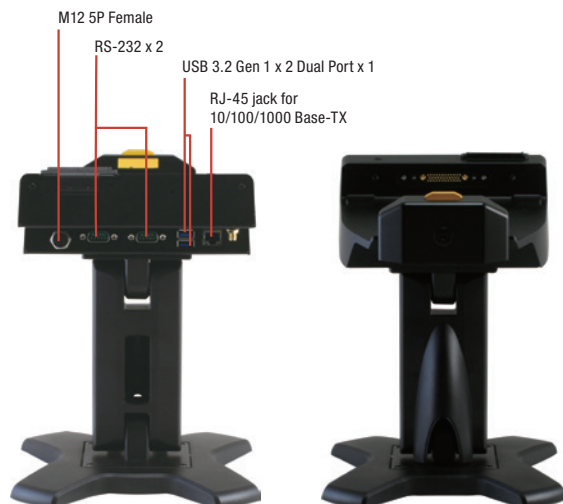
Packing List

- **12V / 40W AC Power Adapter**
- **RDS-411**

*Power cord must be purchased separately.

Optional Accessories

- **170203J000**
DC Input Cable. 2 Meters. One Side With Mating Connector: DINKLE EC381V-03P. One Side With Flying Wires.



Features

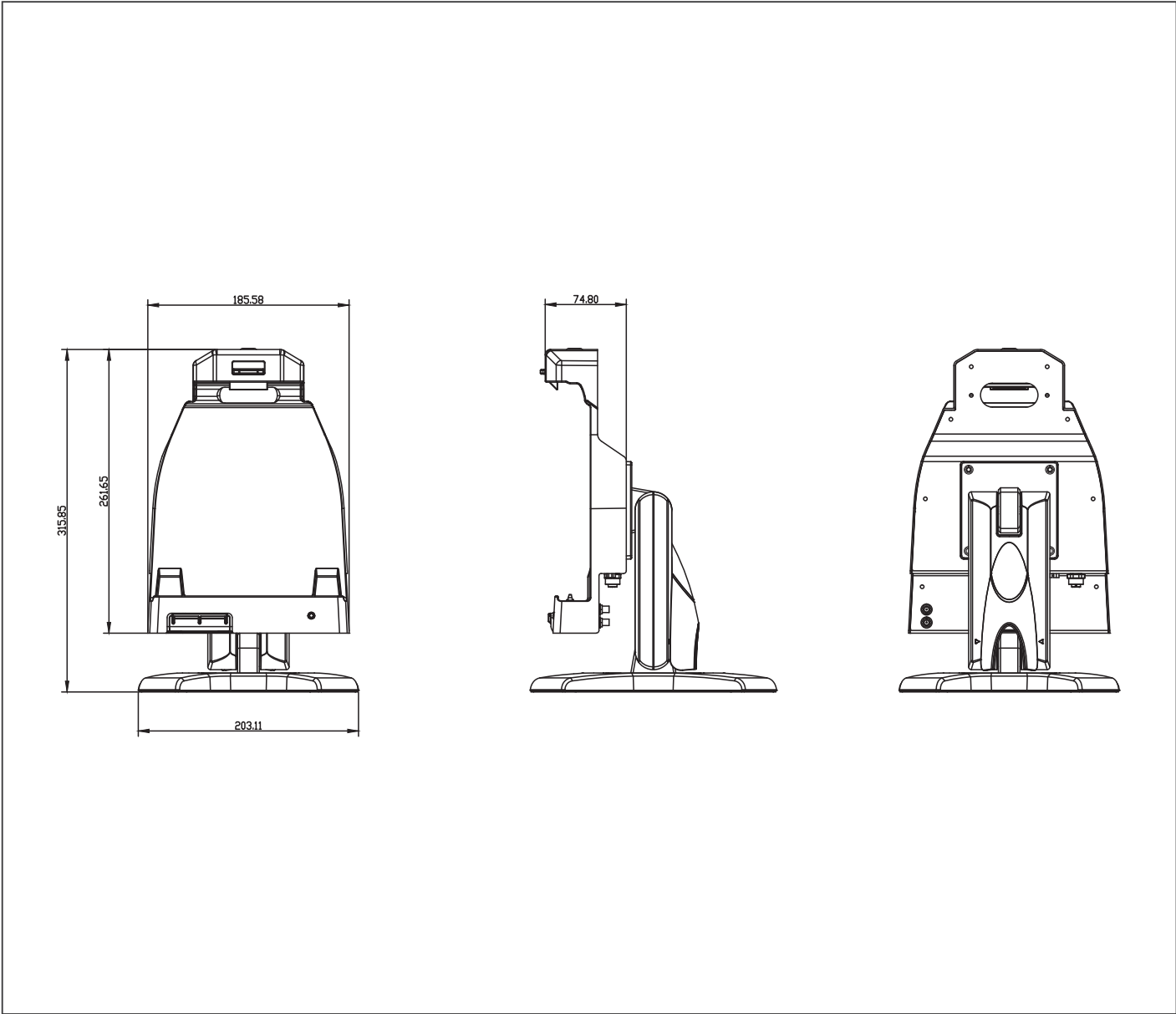
- Apply on RTC-1200
- Anti-theft Lock with Key & VESA mount
- Downward-facing I/Os for Easy Cable Management
- Ext. GPS and WWAN with SMA Connector
- Front-facing I/O: USB x 2 in landscape Side
- Downward-facing I/Os: USB 3.2 Gen 1 Dual Port x 1 + RS-232 x 2, One with 5V in Pin9 & the Other with GPIO x 8, GbE x 1, M12 DC-in x 1
- Wide Voltage Range: 9V DC ~ 36V DC in M12-5P Female Connector
- Adaptor is Additionally: (Car Adaptor with Cigarette Plug or Std Adaptor for YC-14)



Specifications

System	
I/O	USB 2.0 x 2, USB 3.2 Gen 1 Dual Port x 1, RJ-45 jack for 10/100/1000 Base-TX Ethernet x 1, RS-232 x 2, External antenna for GPS and WWAN x 2
DC Input	M12 5P Female (DC 9V to 36V)
LED Indicator	Orange:DC in w/o Tablet,Blue:DC in w/ Tablet
Mechanical	
Color	Black
Construction	PC
Dimensions (W x H x D)	10.28" x 6.50" x 2.96" (261 x 165 x 75mm)
Gross Weight	6.44 lb (2.92kg)
Environmental	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	14°F ~ 122°F (-10°C ~ 50°C)
ESD	Air +/- 8KV, Contact +/- 4KV
EMC/ Safety	CE/FCC Class B/UL
Power Supply	
AC/DC Adapter	Input: 100-240V,47-63Hz,90W Output: 19V/ 4.74A
DC/DC Adapter	Input: 11V-16V DC or 22V-32V DC Output: 19V DC/ 4.73A/ 90W

Dimension Unit: mm



Ordering Infomation

Part Number	Applied Models	Stand	Expansion I/O
RDS-241V-0000	For RTC-1200 Series w/ Stand	Yes	USB 2.0 x 2, USB 3.2 Gen 1 Dual Port x 1, LAN x 1, RS-232 x 2, GPS and WWAN x 2
RDS-241V-0001	For RTC-1200 Series w/o Stand	No	USB 2.0 x 2, USB 3.2 Gen 1 Dual Port x 1, LAN x 1, RS-232 x 2, GPS and WWAN x 2

Packing List

- RDS-241V
- *Power cord must be purchased separately.

Optional Accessories

- 1255300903
Power Adapter
- 1255900900
Flying Lead Adapter for Vehicle

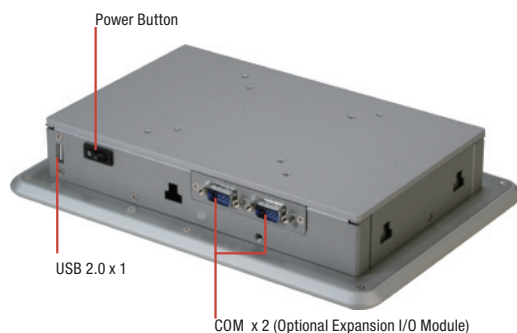
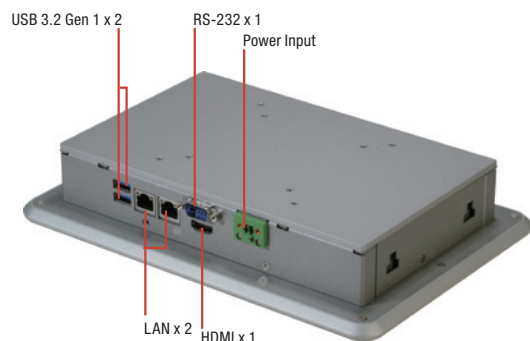
Ultra-Slim Multi-Touch Panel Solutions

11



ACP-1106

10.1" WXGA Multi-Touch Panel PC With Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM



9761107601
USB 2.0 x 2



9761107600
RS-232/422/485 x 2



Features

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- Intel® Pentium® N4200/ Celeron® N3350 Processor
- Projected Capacitive Multi Touch
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA 75/Panel Mount Support
- DC 9~30V

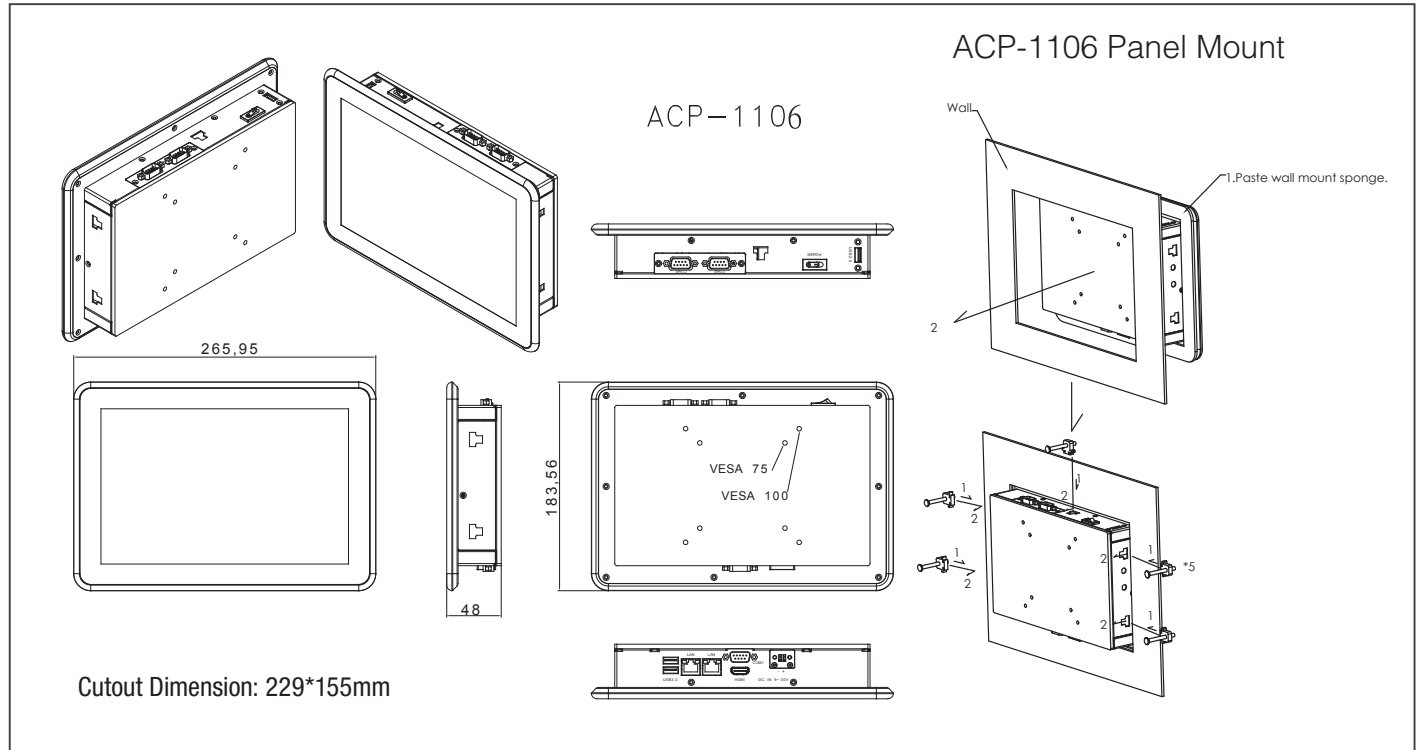


Specifications

System	
Processor	Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
System Memory	204-pin DDR3L SODIMM x 1, Build-in 4GB, Max. 8GB
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
Bottom I/O Port	DB9 Type RS-232 x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 10/100/1000 LAN x 2 2 Pin terminal block for power input
Top I/O Port	Power Button x 1 Type A USB 2.0 x 1 Expansion I/O Slot
Storage Disk Drive	Full Size mSATA x 1
Expansion Slot	Half size mini card x 1 (Internal)
OS support	Windows® 10, Linux Kernel 4.4.0 or higher
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA 75, Panel Mount
Dimension	10.47" x 7.24 x 1.89" (266 x 184 x 48mm)
Carton Dimension	13.38" x 7.64 x 9.96" (340 x 194 x 253mm)
Gross Weight	6.38 lb (2.9 kg)
Environmental	
Operating Temperature	23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	—
EMC	CE/FCC Class A
Power Supply	
DC input	DC 9~30V
LCD	
Display Type	10.1" TFT-LCD, LED
Max Resolution	1280 x 800
Max. Colors	262K colors (6 bit for R,G,B)
Luminance	300 cd/m ²
Viewing Angle	170° (H), 170° (V)
Back Light	LED
Back Light MTBF (Hours)	—
Touch Screen	
Type	P-CAP Touchscreen
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1106HTT-A1-1011	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Pentium® N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini card slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1106HTT-A3-1011	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Celeron® N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini card slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1106HTT-B1-1011	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Pentium® N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1106HTT-B3-1011	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H)/170°(V)	25,000	Intel® Celeron® N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S

Packing List

- Panel Mount Kit
- VESA Screws
- ACP-1106

Full Size mSATA Storage Device:

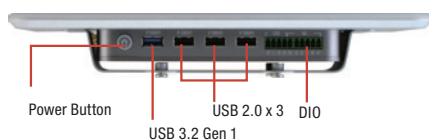
- **AP-SS968C008G1N**
Full-sized, 8GB mSATA, MLC, -40°C ~ 85°C
- **AP-SS968C016G3D**
Full-sized, 16GB mSATA, MLC, -40°C ~ 85°C
- **968C032G35**
Full-sized, 32GB mSATA, MLC, -40°C ~ 85°C
- **968C064G2R**
Full-sized, 64GB mSATA, MLC, -40°C ~ 85°C
- **968C128G16**
Full-sized, 128GB mSATA, MLC, -40°C ~ 85°C
Note: AAEON factory-installed mSATA HDD is strongly recommended.

Optional Accessories

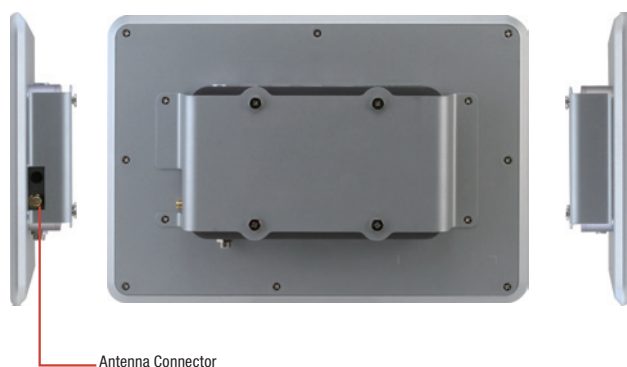
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit
- **9761107600**
RS-232/422/485 x 2 (Expansion I/O Module)
- **9761107601**
USB 2.0 x 2 (Expansion I/O Module)
- **1255300609**
2 Pin 60W power adapter



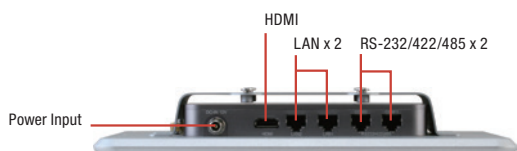
Top I/O Side



Rear Side

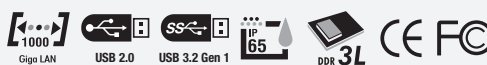


Button I/O Side



Features

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- Intel® Celeron® J1900/ N2807 Processor
- Aluminum Design
- P-CAP Multi-touch
- Fanless Operation
- VESA 75/ Panel Mount/ Stand Support
- IP65 Compliant Front Bezel

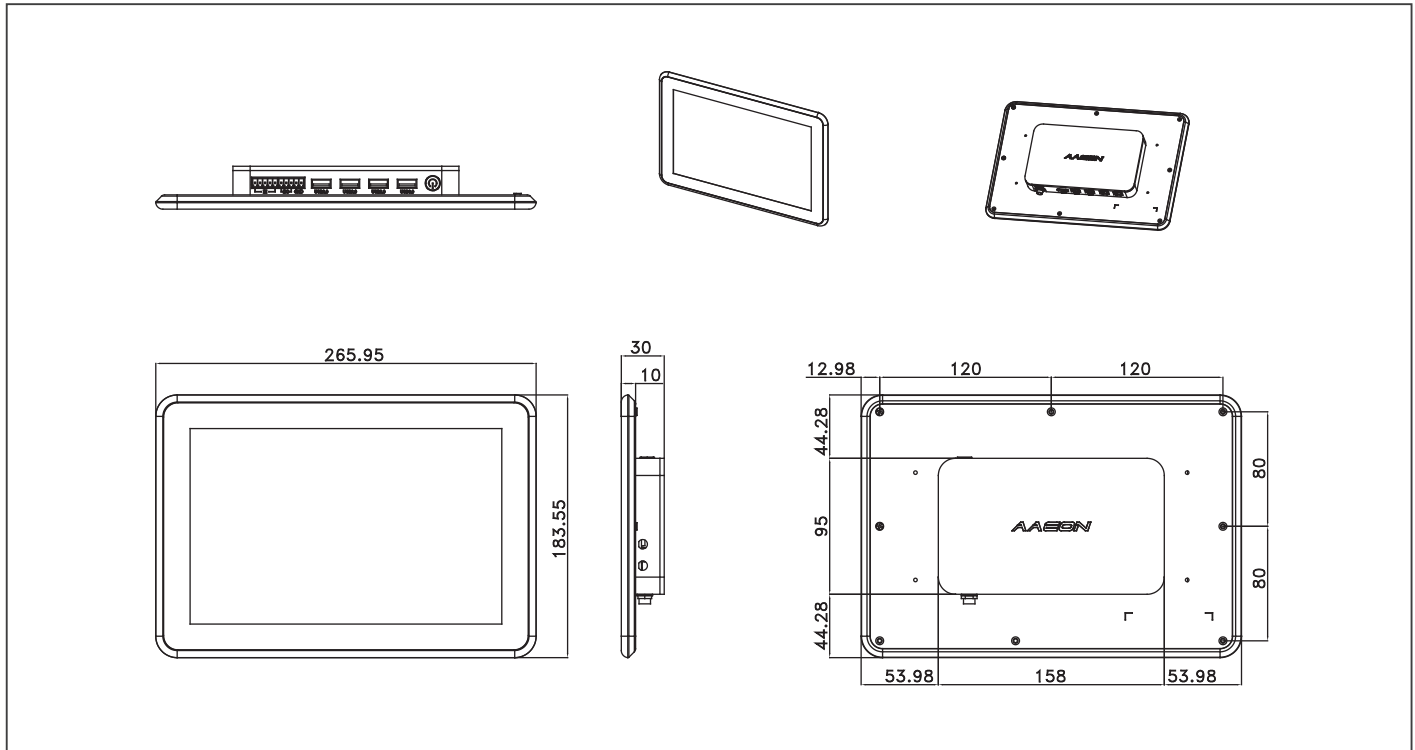


Specifications

System	
Processor	Intel® Celeron® J1900 processor, 2 GHz Intel® N2807 processor, 1.58 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 8 GB (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 4 GB (N2807)
LCD/CRT controller	—
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
I/O Port	RS-232/422/485 x 2 (RJ-45 connector) USB 2.0 type A x 3 USB 3.2 Gen 1 type A x 1 HDMI x 1 DIO (4 DI, 2 DO) BIOS selection Power button x 1 Lockable power connector x 1
Storage Disk Drive	Half size mSATA x 1 (Installation by AAEON recommended)
Expansion Slot	Full size Mini-Card x 1
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher, Android 4.4.4
Mechanical	
Front Panel	Aluminum Design
Mounting	VESA 75/ Panel mount/ Stand
Dimension	10.47" x 7.22" x 1.81" (266 x 183.5 x 30mm)
Carton Dimension	13.58" x 7.87" x 9.65" (345 x 200 x 245mm)
Gross Weight	5.5 lb (2.5 kg)
Environmental	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) without airflow 32°F ~ 122°F (0°C ~ 50°C) with airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5%~90% @40°C, non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC Input	DC 12V with lockable power adapter
LCD	
Display Type	10.1" TFT-LCD, LED
Max. Resolution	1280 x 800
Max. Colors	262k
Luminance	300 cd/m ²
Viewing Angle	170° (H), 170° (V)
Back Light	LED
Back Light MTBF (Hours)	—
Touchscreen	
Type	Projected capacitive multi-touch
Light Transmission	—

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1104HTT-A1-1013	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® J1900, 2.0 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	—	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch
ACP-1104HTT-B1-1013	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® J1900, 2.0 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	WiFi	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch
ACP-1104HTT-A3-1013	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® N2807, 1.58 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	—	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch
ACP-1104HTT-B3-1013	10.1" TFT-LCD	1280 x 800	300 cd/m ²	170°(H), 170°(V)	25,000	Intel® Celeron® N2807, 1.58 GHz	2	USB 3.2 Gen 1 x 1, USB 2.0 x 3	—	2	Half size mSATA	2GB	HDMI x 1	WiFi	VESA 75/Stand	DC 12V	32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)	Projected capacitive touch

Packing List

- **1255300607**
Power Adapter, DC12V, 60W
- **1700090156 x 2**
RJ-45 to COM Cable
- **VESA Mount Kit**
- **9741107300**
Panel Mount Kit
- **VESA Screws**
- **ACP-1104**

Optional Accessories

- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit

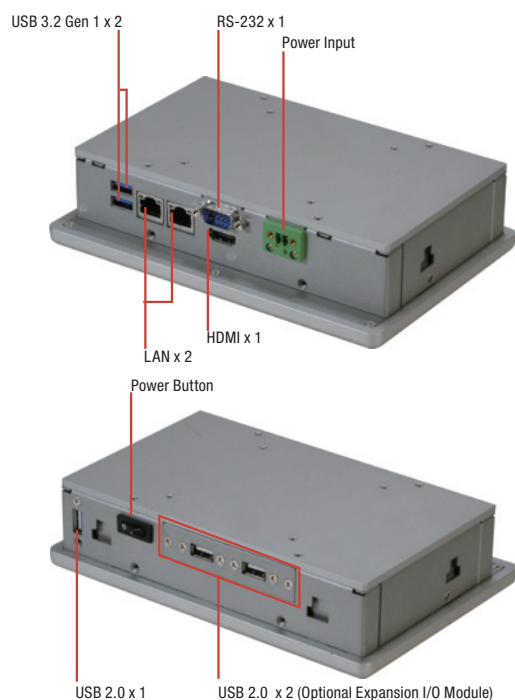
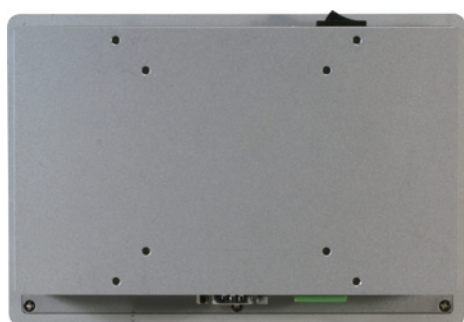
Half Size mSATA Storage Device:

- **968C016G4Q**
(TF)Half-sized, 16 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C032G3K**
(TF)Half-sized, 32 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C064G3A**
(TF)Half-sized, 64 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C128G1Q**
(TF)Half-sized, 128 GB, mSATA SSD, MLC, -40°C ~ +85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.

ACP-1076

7" SWXGA Multi-Touch Panel PC with Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM



9761107601
USB 2.0 x 2



9761107600
RS-232/422/485 x 2



Features

- 7" WXGA (1024 x 600) Color TFT LCD Display
- Intel® Pentium® N4200/ Celeron® N3350 Processor
- Projected Capacitive Multi Touch (2 Fingers)
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA 75/ Panel Mount Support
- DC 9~30V

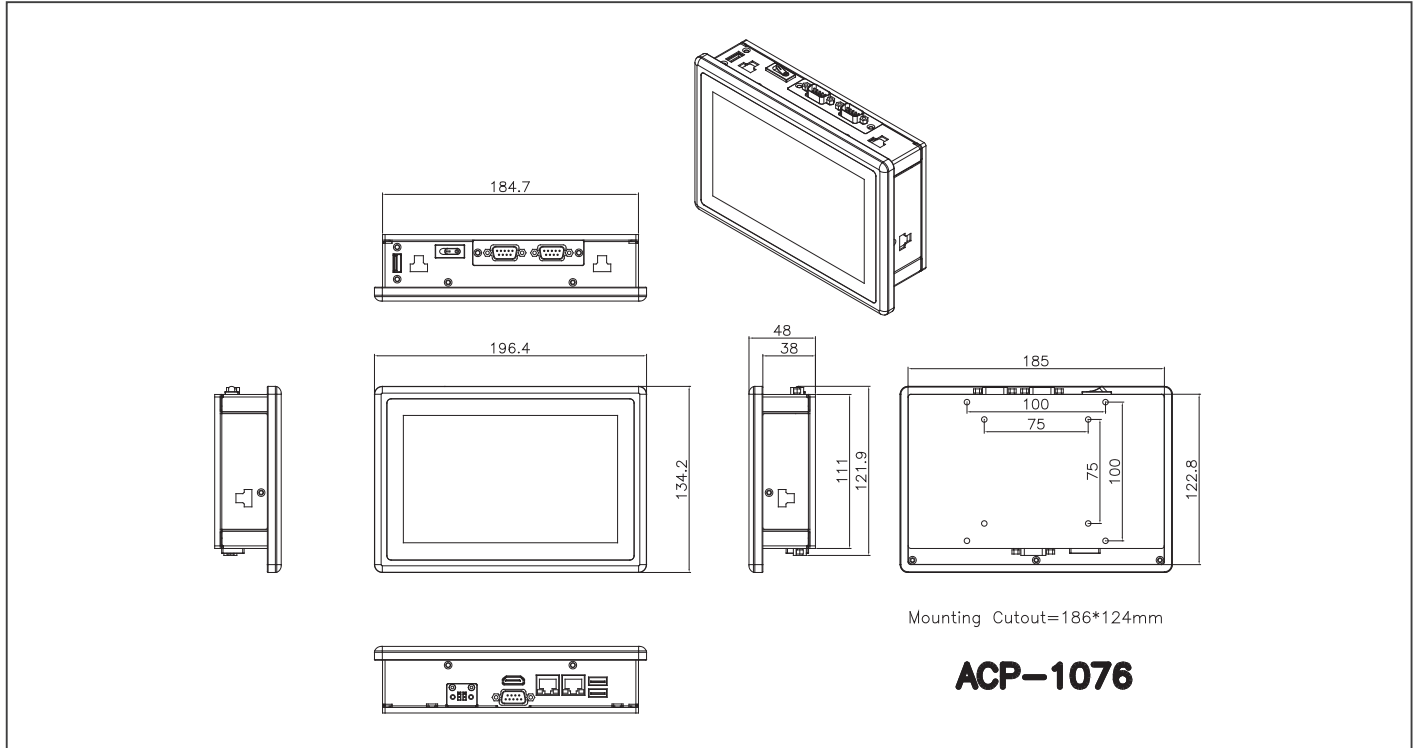


Specifications

System	
Processor	Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
System Memory	204-pin DDR3L SODIMM x 1, Build-in 4GB, Max. 8GB
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
Bottom I/O Port	DB9 Type RS-232 x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 10/100/1000 LAN x 2 2 Pin terminal block for power input
Top I/O Port	Power Button x 1 Type A USB 2.0 x 1 Expansion I/O Slot
Storage Disk Drive	Full Size mSATA x 1
Expansion Slot	Half size mini card x 1 (Internal)
OS support	Windows® 10, Linux Kernel 4.4.0 or higher
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA 75, Panel Mount
Dimension	7.72" x 5.28" x 1.89" (196 x 134 x 48 mm)
Carton Dimension	10.87" x 9.41" x 6.69" (276 x 239 x 170 mm)
Gross Weight	4.62 lb (2.1 Kg)
Environmental	
Operating Temperature	23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	DC 9~30V
LCD	
Display Type	7" TFT-LCD, LED
Max Resolution	1024 x 600
Max. Colors	16.7M
Luminance	320 cd/m²
Viewing Angle	150° (H), 145° (V)
Back Light	LED
Back Light MTBF (Hours)	20,000
Touch Screen	
Type	P-CAP Touchscreen
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1076HTT-A1-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Pentium N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1076HTT-A3-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Celeron N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1076HTT-B1-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Pentium N4200	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S
ACP-1076HTT-B3-1012	7" TFT-LCD	1024 x 600	320 cd/m ²	150(H) / 145(V)	20,000	Intel® Celeron N3350	2	2	1	1	0	Full Size mSATA x 1	4GB DDR3L RAM Included	HDMI x 1	- Half size mini PCIe slot x 1 with WiFi module installed - Expansion I/O window x 1	Stand, Panel, VESA 75	DC 9~30V	23°F ~ 122°F (-5°C ~ 50°C) (w/ airflow)	PCAP T/S

Packing List

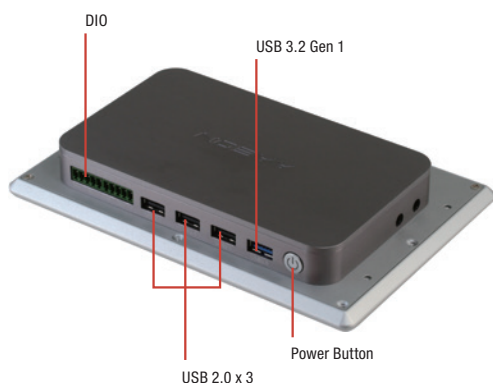
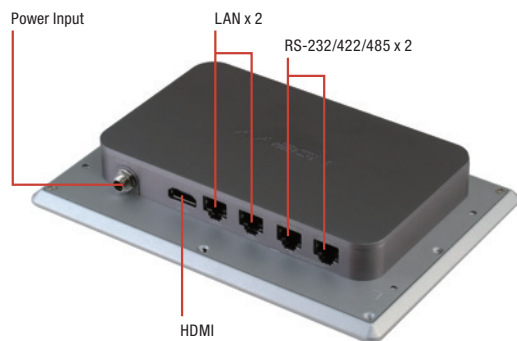
- Panel Mount Kit
- VESA Screws
- ACP-1076

Optional Accessories

- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit
- **9761107600**
RS-232/422/485 x 2 (Expansion I/O Module)
- **9761107601**
USB 2.0 x 2 (Expansion I/O Module)
- **1255300609**
2 Pin 60W power adapter

Full Size mSATA Storage Device:

- **AP-SS968C008G1N**
Full-sized, 8GB mSATA, MLC, -40°C ~ 85°C
- **AP-SS968C016G3D**
Full-sized, 16GB mSATA, MLC, -40°C ~ 85°C
- **968C032G35**
Full-sized, 32GB mSATA, MLC, -40°C ~ 85°C
- **968C064G2R**
Full-sized, 64GB mSATA, MLC, -40°C ~ 85°C
- **968C128G16**
Full-sized, 128GB mSATA, MLC, -40°C ~ 85°C
Note: AAEON factory-installed mSATA HDD is strongly recommended.



Features

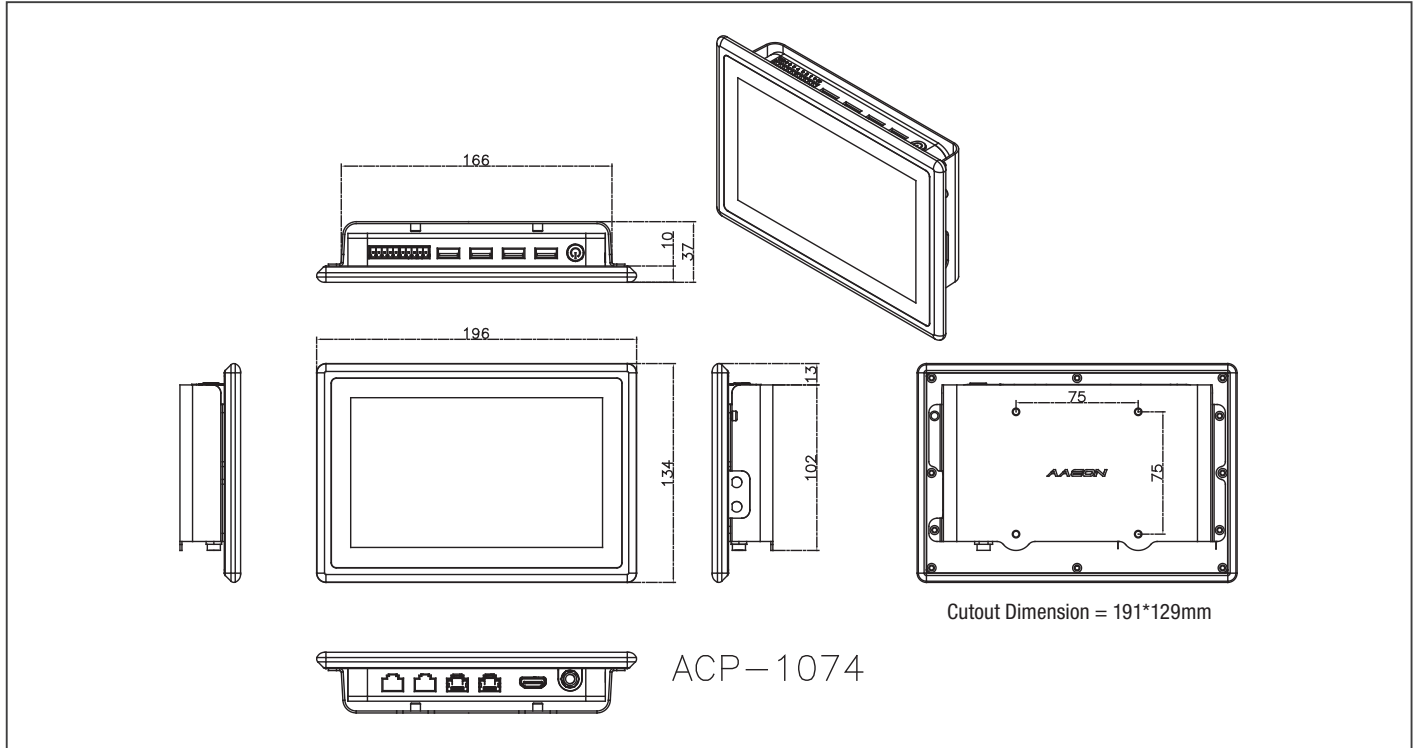
- 7" WSVGA (1024 x 600) Color TFT LCD Display
- Intel® N2807/J1900 Processor
- Wide Flatscreen with P-CAP Multi-Touch (2-point)
- 7H Anti-scratch Surface
- Aluminum Design
- IP65 Compliant
- Fanless Operation
- VESA 75/Panel Mount/ Stand Support



System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-Pin DDR3L SODIMM x 1, default 2GB, up to 8 GB (J1900) 204-Pin DDR3L SODIMM x 1, default 2GB, up to 4 GB (N2807)
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000 Base-TX, RJ-45 x 2
I/O Port	RJ-45 type RS-232/422/485 x 2 USB 2.0 x 3 USB 3.2 Gen 1 x 1 HDMI x 1 RJ-45 10/100/1000 LAN x 2 DI/O (4DI, 2DO) BIOS Selection Lockable power input connector Power switch x 1
Storage Disk Drive	Half size mSATA storage x 1 (Installation by AAEON recommended)
Expansion Slot	Full size Mini-Card x 1
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher
Mechanical	
Construction	Aluminum Design
Mounting	VESA 75/ Panel mount/ Stand
Dimension	7.71" x 5.27" x 1.18" (196mm x 134mm x 30mm)
Carton Dimension	13.58" x 7.87" x 9.64" (345mm x 200mm x 245mm)
Gross Weight	5.5 lb (2.5 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C) without airflow 23°F ~ 131°F (-5°C ~ 55°C) with airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	5%~90% @40°C, non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC Input	DC12V, with lockable power adapter
LCD	
Display Type	7" TFT-LCD, LED
Max Resolution	1024 x 600
Max. Colors	16.7M
Luminance	320 cd/m²
Viewing Angle	150° (H), 145° (V)
Back Light	LED
Back Light MTBF (Hours)	20,000
Touchscreen	
Type	Projected capacitive multi-touch (2-point)
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232 /422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
ACP-1074HTT-A1-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® Celeron® J1900, 2 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	—	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)
ACP-1074HTT-A3-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® N2807, 1.58 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	—	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)
ACP-1074HTT-B1-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® Celeron® J1900, 2 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	WiFi	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)
ACP-1074HTT-B3-1013	7" TFT-LCD	1024 x 600	320 cd/m ²	150°(H)/145°(V)	20,000	Intel® N2807, 1.58 GHz	2	1	3	—	2	Half Size mSATA x 1	2G DDR3L RAM Include	VGA x 1	WiFi	Panel Mount/ VESA 75/ Stand	DC 12V	0°C ~ 50°C (w/o airflow) -3°F ~ 131°F (-5°C ~ 55°C) (w/ airflow)	Projected Capacitive multi-touch (2-point)

Packing List

- **1255300607**
Lockable Power Adapter
- **1700090156 x 2**
RJ-45 to COM Cable
- **VESA Mount Kit**
- **Panel Mount Kit**
- **VESA Screws**
- **ACP-1074**

Half Size mSATA Storage Device:

- **968C008G1B**
(TF)Half-sized, 8 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C016G4Q**
(TF)Half-sized, 16 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C032G3K**
(TF)Half-sized, 32 GB, mSATA SSD, MLC, -40°C ~ +85°C
- **968C064G3A**
(TF)Half-sized, 64 GB, mSATA SSD, MLC, -40°C ~ +85°C

- **968C128G1Q**
(TF)Half-sized, 128 GB, mSATA SSD, MLC, -40°C ~ +85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.

Optional Accessories

- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **M041073020**
Stand Kit

OMNI Series : Modular Builder

Refer to the product introduction on page 00-19 to learn how to order

1 2



OMNI-215D

15.6" OMNI Modular Touch/ LCD Panel Kit



Features

- 15.6" (1366 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

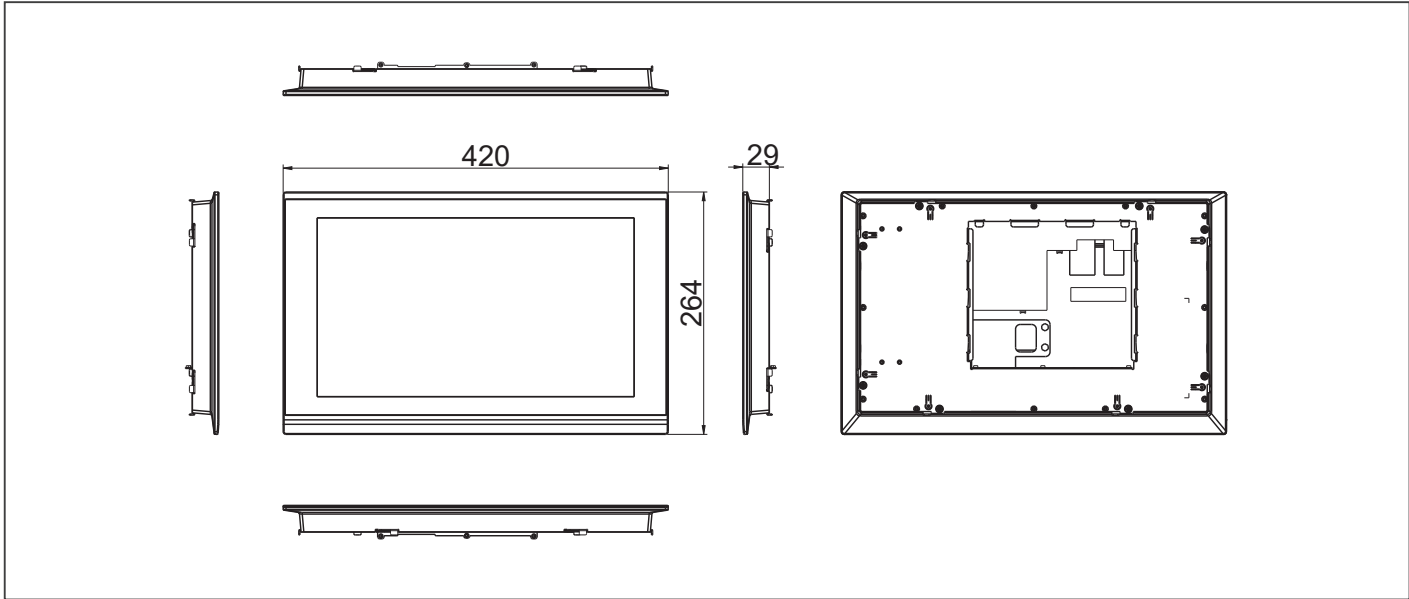


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	16.54" x 10.39" x 1.14" (420mm x 264mm x 29mm)
Carton Dimension	20.47" x 17.13" x 7.09" (520mm x 435mm x 180mm)
Gross Weight	11 lb (5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	1366 x 768
Max. Colors	16.2M colors
Luminance	400 cd/m ²
Viewing Angle	160° (H), 140° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-215DHTT-KIT-A1-1011	15.6" TFT-LCD	1366 x 768	400 cd/m²	160(H), 140(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-215DHTT-KIT-A2-1011	15.6" TFT-LCD	1366 x 768	400 cd/m²	160(H), 140(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 21.5" (1920 x 1080) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

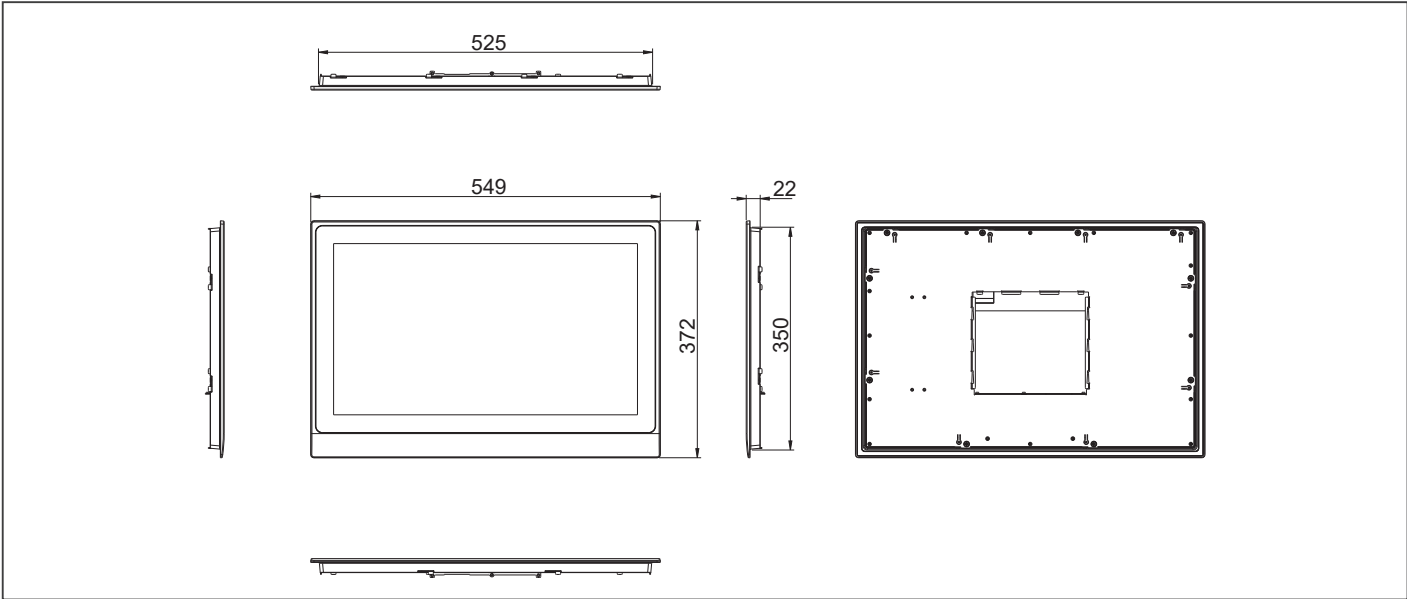


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	21.61" x 14.65" x 0.87" (549mm x 372mm x 22mm)
Carton Dimension	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)
Gross Weight	11 lb (5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	21.5" TFT-LCD, LED
Max Resolution	1920 x 1080
Max. Colors	16.7M colors
Luminance	250 cd/m ²
Viewing Angle	178° (H), 178° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-221DHTT-KIT-A1-1011	21.5" TFT-LCD	1920 x 1080	250 cd/m²	178(H), 178(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-221DHTT-KIT-A2-1012	21.5" TFT-LCD	1920 x 1080	250 cd/m²	178(H), 178(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 10.4" (800 x 600) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

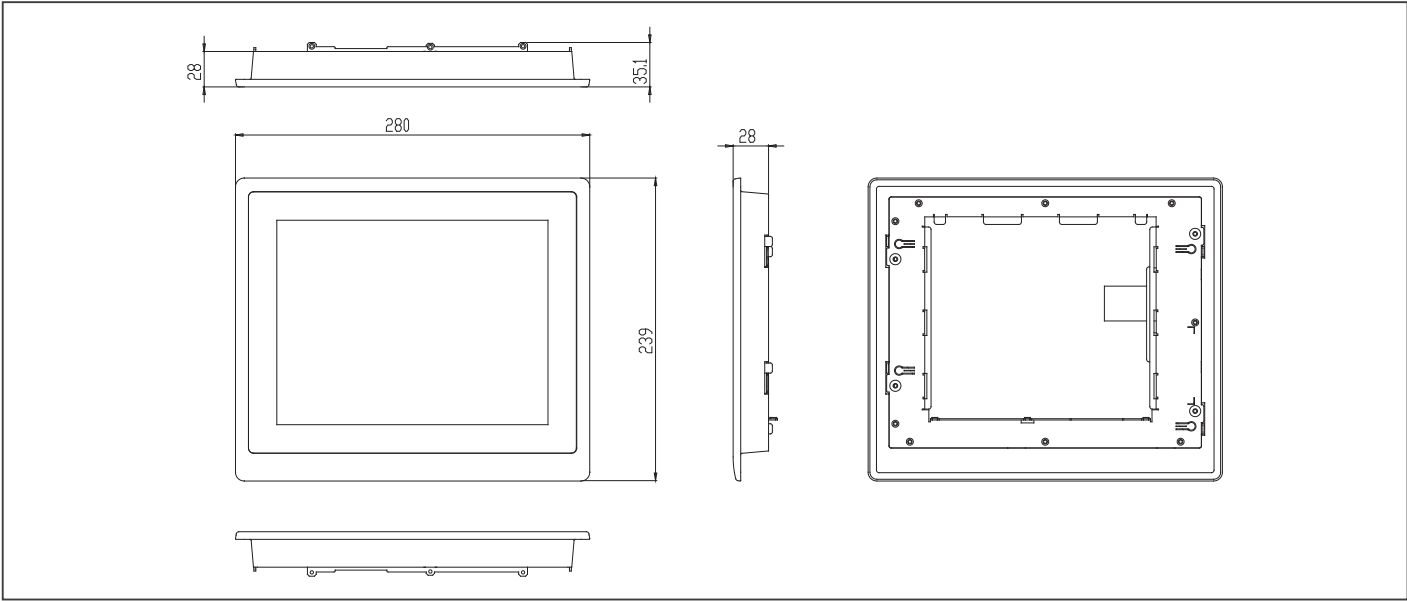


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	11.02" x 9.41" x 1.1" (280mm x 239mm x 28mm)
Carton Dimension	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)
Gross Weight	3.08 lb (1.4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	10.4" TFT-LCD, LED
Max Resolution	800 x 600
Max. Colors	16.2M colors
Luminance	230 cd/m ²
Viewing Angle	120° (H), 100° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/ USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-310DHTT-KIT-A1-1011	10.4" TFT-LCD	800 x 600	230 cd/m²	120(H), 100(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-310DHTT-KIT-A2-1011	10.4" TFT-LCD	800 x 600	230 cd/m²	120(H), 100(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 12.1" (1024 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

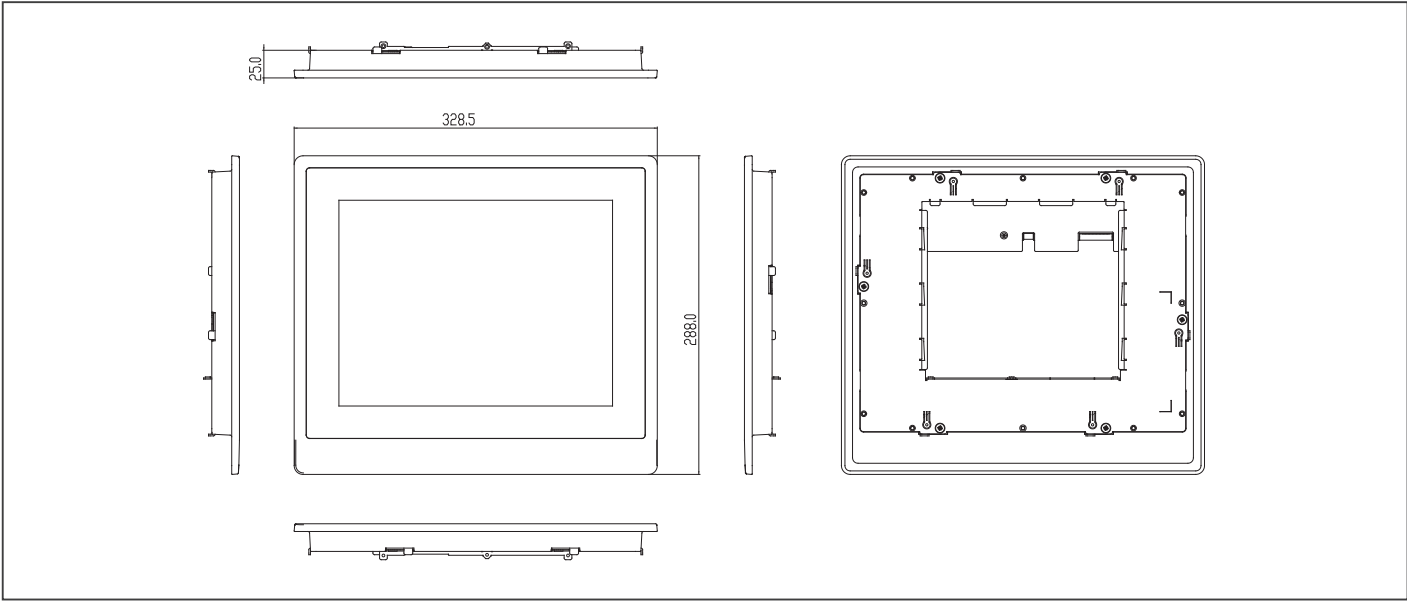


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	12.95" x 11.34" x 0.98" (329mm x 288mm x 25mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 x 768
Max. Colors	16.2M colors
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-312DHTT-KIT-A1-1011	12.1" TFT-LCD	1024 x 768	500 cd/m²	160(H), 160(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-312DHTT-KIT-A2-1011	12.1" TFT-LCD	1024 x 768	500 cd/m²	160(H), 160(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 15" (1024 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

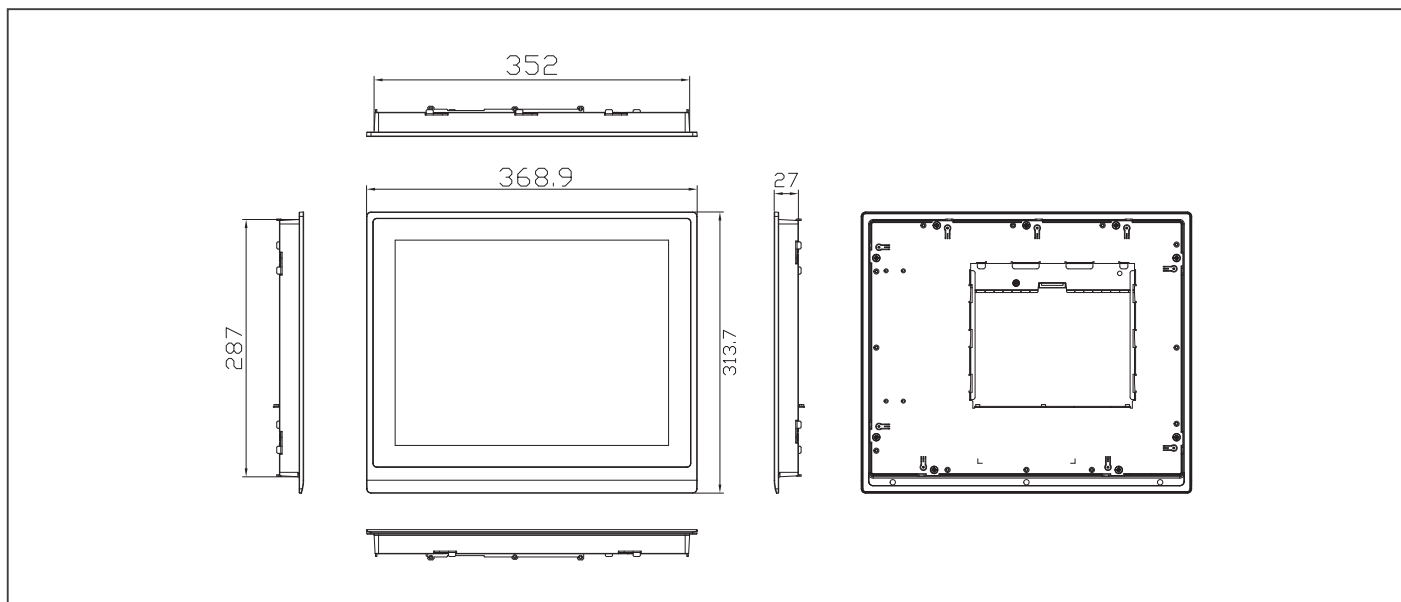


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	14.53" x 12.36" x 1.06" (369mm x 314mm x 27mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	11.66 lb (5.3 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 x 768
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m ²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (hours)	70,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-315DHTT-KIT-A1-1012	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-315DHTT-KIT-A2-1012	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 17" (1280 x 1024) MNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

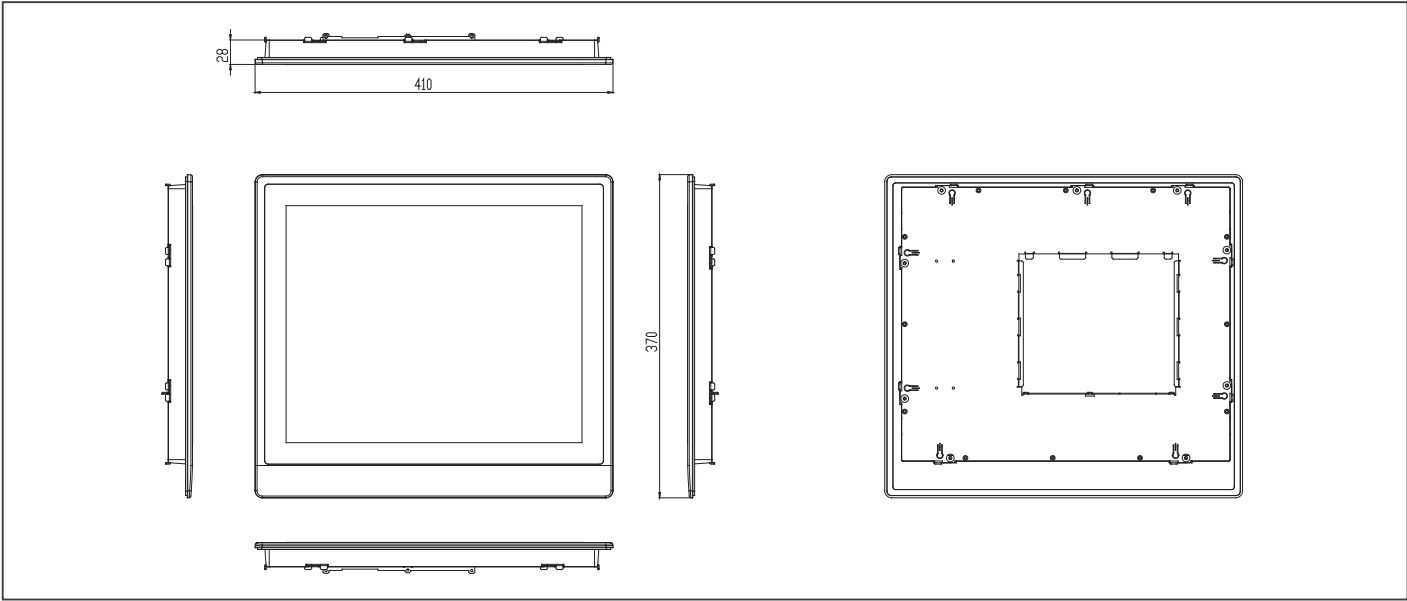


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	16.14" x 14.57" x 1.1" (410mm x 370mm x 28mm)
Carton Dimension	20.47" x 10.32" x 19.29" (522mm x 262mm x 490mm)
Gross Weight	8.8 lb(4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 x 1024
Max. Colors	16.7M colors
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-317DHTT-KIT-A1-1012	17" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-317DHTT-KIT-A2-1011	17" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit



Features

- 19" (1280 x 1024) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

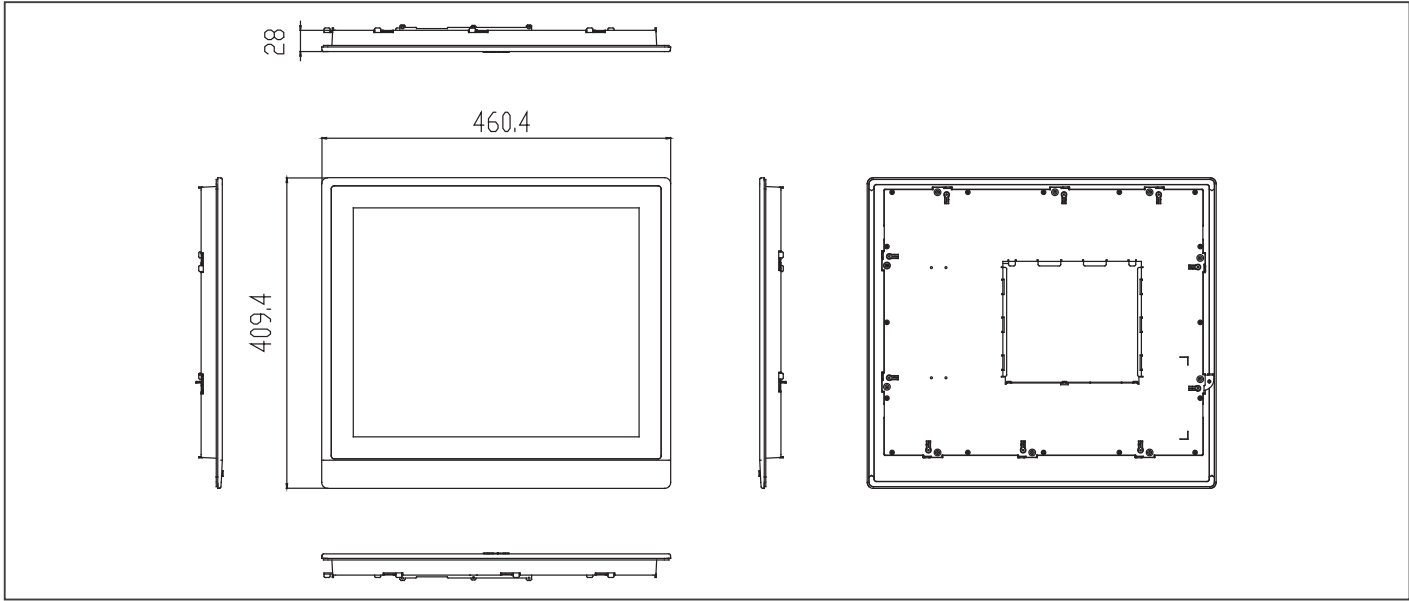


Specifications

Mechanical	
Construction	Aluminum Front Bezel
Mounting	Panel Mount
Dimension	18.13" x 16.12" x 1.1" (460.4mm x 409.4mm x 28mm)
Carton Dimension	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
Gross Weight	11 lb (5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	19" TFT-LCD, LED
Max Resolution	1280 x 1024
Max. Colors	16.7M colors
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	P-CAP/ Full-flap resistive
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

Dimension

Unit: mm



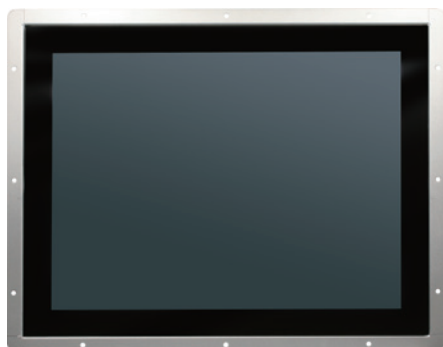
Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-319DHTT-KIT-A1-1012	19" TFT-LCD	1280 x 1024	350 cd/m²	170(H), 160(V)	50,000	-10°C ~ 55°C	Full Flat Resistive Touch Screen	Support OMNI CPU BOX kit
OMNI-319DHTT-KIT-A2-1011	19" TFT-LCD	1280 x 1024	350 cd/m²	170(H), 160(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit

OMNI-3120PD-HTT-KIT-A1-1010



OMNI-3120PD-HTT-KIT-A2/A3-1010



Features

- 12.1" (1024 x 768) OMNI Modular Open Frame Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Full Flat Resistive Touch Screen or 5-wire Resistive Touch Screen



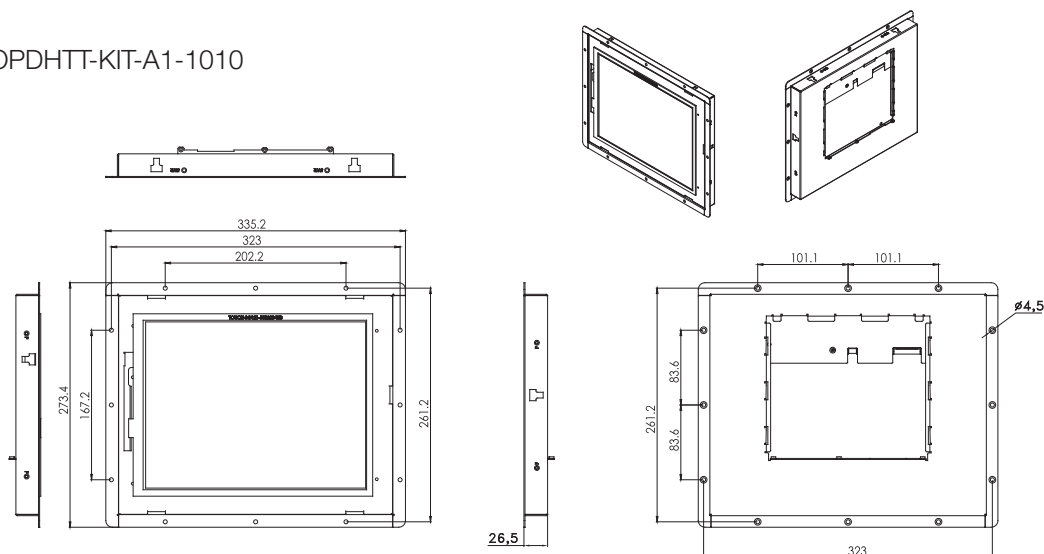
Specifications

Mechanical	
Construction	Open Frame LCD Kit
Mounting	Panel Mount
Dimension	13.2" x 10.8" x 1.04" (335.2mm x 274.2mm x 26.5mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	4.4 lb (2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 x 768
Max. Colors	16.2M colors
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touch Screen	
Type	Projected Capacitive Multi Touch or Full Flat Resistive Touch Screen or 5-wire Resistive Touch Screen
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

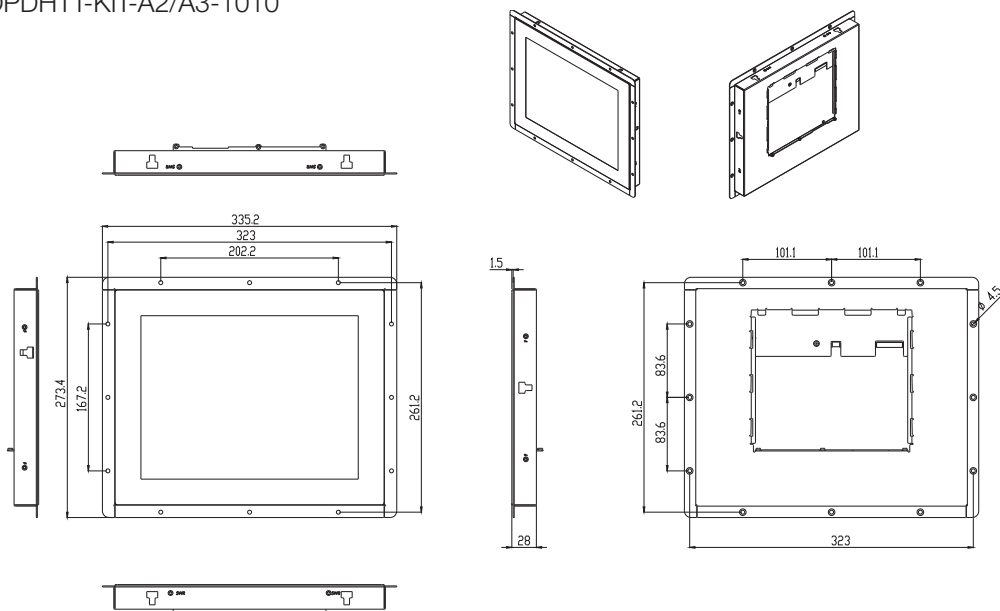
Dimension

Unit: mm

OMNI-3120PDHTT-KIT-A1-1010



OMNI-3120PDHTT-KIT-A2/A3-1010



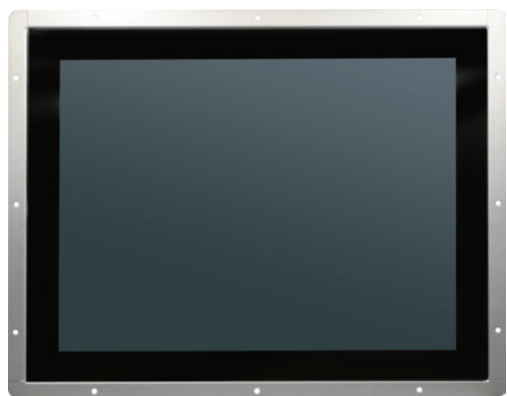
Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-3120PDHTT-KIT-A1-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160°(H), 160°(V)	50,000	-10°C ~ 55°C	5 wire Resistive Touch	Support OMNI CPU BOX kit
OMNI-3120PDHTT-KIT-A2-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160°(H), 160°(V)	50,000	-10°C ~ 55°C	Full flat Resistive Touch	Support OMNI CPU BOX kit
OMNI-3120PDHTT-KIT-A3-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160°(H), 160°(V)	50,000	-10°C ~ 55°C	Projectitive Capacitive Touch	Support OMNI CPU BOX kit

OMNI-3150PD-HTT-KIT-A1-1010



OMNI-3150PD-HTT-KIT-A2/A3-1010



Features

- 15" (1024 x 768) OMNI Modular Open Frame Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Full Flat Resistive Touch Screen or 5-wire Resistive Touch Screen



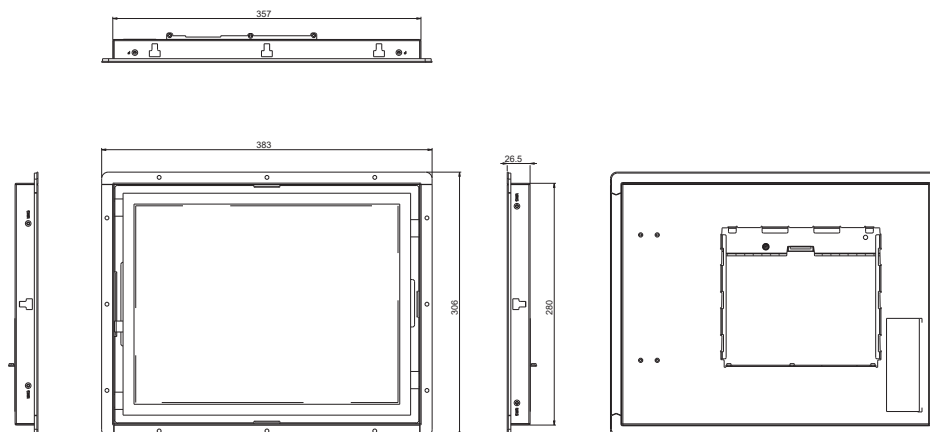
Specifications

Mechanical	
Construction	Open Frame LCD Kit
Mounting	Panel Mount
Dimension	15.08" x 12.05" x 1.04" (383mm x 306mm x 26.5mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	8.8 lb (4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC Class A
Power Supply	
DC input	—
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 x 768
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m ²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (hours)	70,000
Touch Screen	
Type	Projected Capacitive Multi Touch or Full Flat Resistive Touch Screen or 5-wire Resistive Touch Screen
Light Transmission	90%
Others	1. Connect with OMNI-Box Kit 2. Connect with LVDS/USB Type Touch

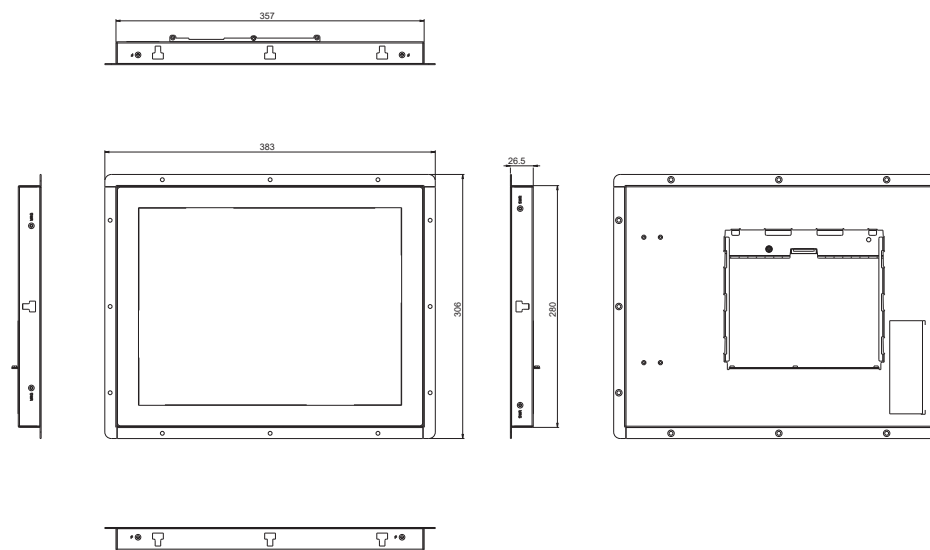
Dimension

Unit: mm

OMNI-3150PDHTT-KIT-A1-1010



OMNI-3150PDHTT-KIT-A2/A3-1010

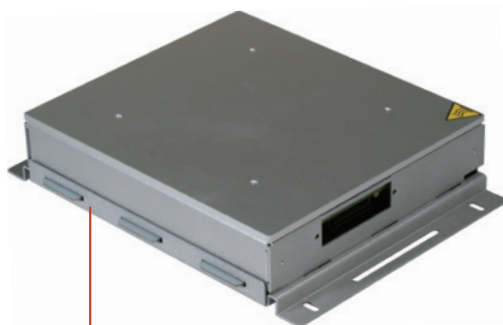
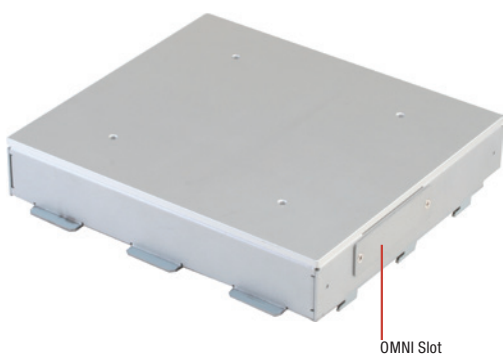
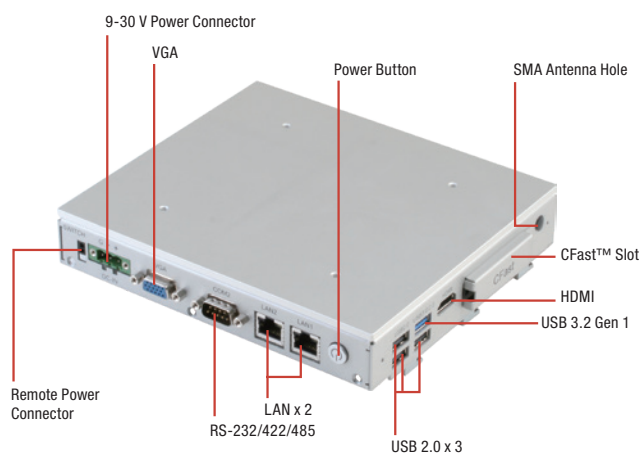


Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Temp.	Touch	Other
OMNI-3150PDHTT-KIT-A1-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	5 wire Resistive Touch	Support OMNI CPU BOX kit
OMNI-3150PDHTT-KIT-A2-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	Full flat Resistive Touch	Support OMNI CPU BOX kit
OMNI-3150PDHTT-KIT-A3-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	-10°C ~ 55°C	Projective Capacitive Touch	Support OMNI CPU BOX kit

OMNI-BT CPU BOX Kit

OMNI Series Modules- CPU BOX Kit



Cover:Optional Accessory Kit, P/N: M0421550A0

Features

- Intel® N2807/J1900 Processor
- Aluminum Design
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules



Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for 10/100/1000 Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Mini card x 2 (Full size x 2) SIM card x 1 OMNI I/O connector x 1
OS Support	Windows® 7, Windows® 8, Windows® 10, Linux Kernel 2.6.x or higher
Construction	Aluminum design
Mounting	Wallmount
Dimension	7.2" x 6.38" x 1.1" (183mm x 162mm x 28mm)
Gross Weight	3.96 lb (1.8 kg)
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900) 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Anti Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Anti-Shock	15 G peak acceleration (11 msec. duration) – HDD
Certification	CE/FCC class A
DC Input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
Display Type	HDMI x 1, VGA
Others	Box Bottom Chassis Cover (optional): M0421550A0

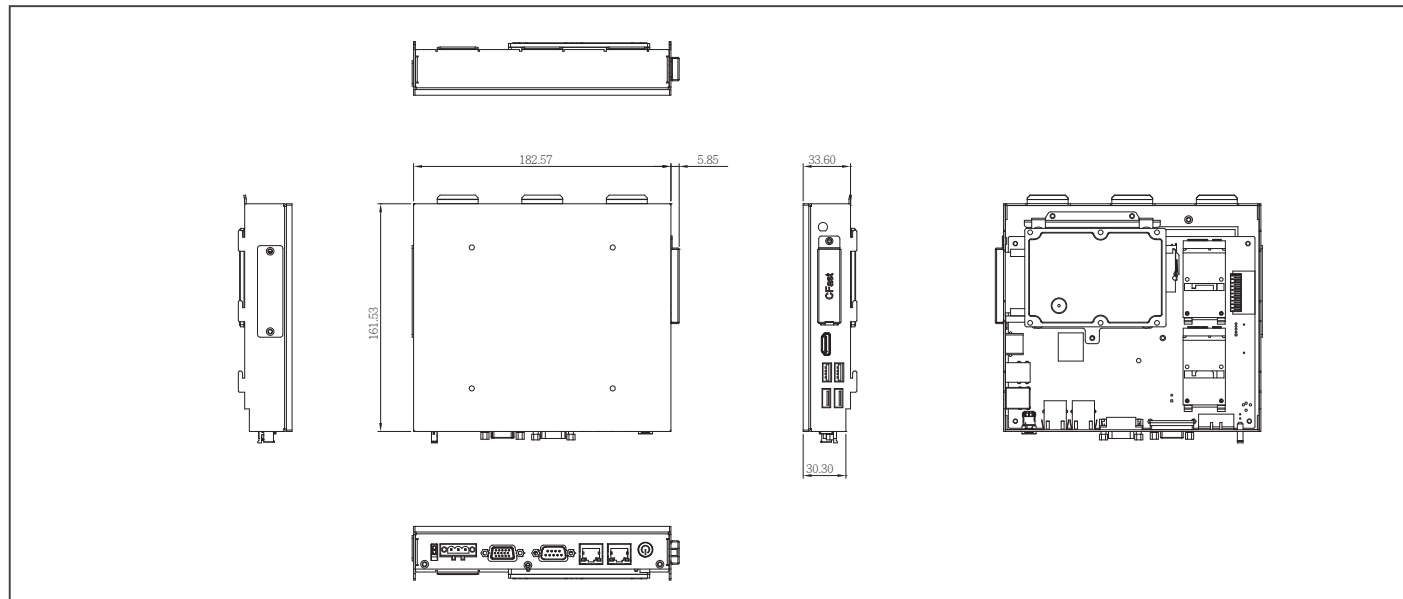
OMNI-BT CPU BOX Kit

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OMNI Series: Modular Builder - BOX Kit

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Power	Operating Temp.
OMNI-BT-KIT-A1-1010	Intel® Celeron® J1900, 2 GHz	2	1	3	—	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1	Mini-Card x 2 (Full Size) OMNI Module	DC 9~30V	-10°C ~ 55°C with airflow
OMNI-BT-KIT-A2-1010	Intel® N2807, 1.58 GHz	2	1	3	—	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1	Mini-Card x 2 (Full Size) OMNI Module	DC 9~30V	-10°C ~ 60°C with airflow

Packing List

- Phoenix Power Connector
- OMNI-BT CPU BOX Kit

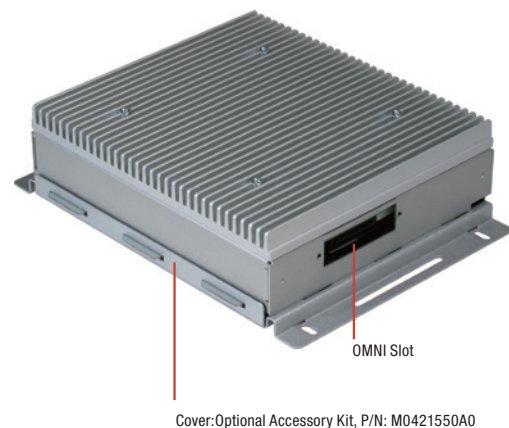
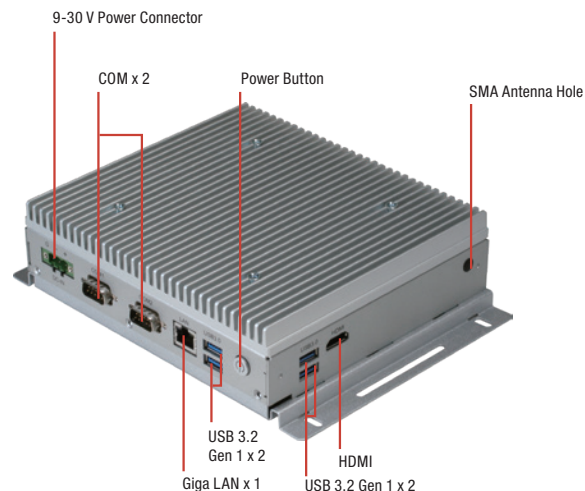
Optional Accessories

- **AP-0T9789LA1000**
LCD monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **M0421550A0**
OMNI BOX Bottom Cover
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
(TF)Adapter.AC/DC.Input 90V~264V.
Output 12V/84W.3p phoenix.FSP.FSP084-DHAN3(9NA0840718)
- **1700021500**
Remote Switch Cable, 150 cm

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995 Processor
- 10/100/1000 Base-TX RJ-45 Port x 1
- RS-232/422/485 x 2
- USB 3.2 Gen 1 x 4
- Aluminum Design
- Fanless Operation
- DC 9~30V



Specifications

System	
Processor	Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995 Processor
System Memory	260-pin DDR4 SODIMM x 1, Max. 16GB
LCD CRT Controller	Integrated in processor
Ethernet	Gigabit Ethernet, RJ-45 x 1
I/O Port	USB Type A x 4 for USB 3.2 Gen 1 RJ-45 x1 for GbE LAN DB-9 x 2 for RS-232, DB-9 x 1 for RS-232/422/485 Power input connector, Power ON/OFF Switch x 1, antenna hole HDMI x 1 3-pin terminal Power input x 1
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full size mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS Support	Windows® 10 (64-bit), Linux kernel 2.6.3 or above
Construction	Aluminum design
Mounting	Wallmount (with optional Bottom cover: M0421550A0) / with OMNI-Panel Kits
Dimension	7.2" x 6.38" x 1.77" (183mm x 162mm x 45mm)
Gross Weight	3.96 lb (1.8 kg)
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Anti Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Anti-Shock	15 G peak acceleration (11 msec. duration) – HDD
Certification	CE/FCC class A
DC Input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
Display Type	HDMI x 1
Others	Box Bottom Chassis Cover (optional): M0421550A0

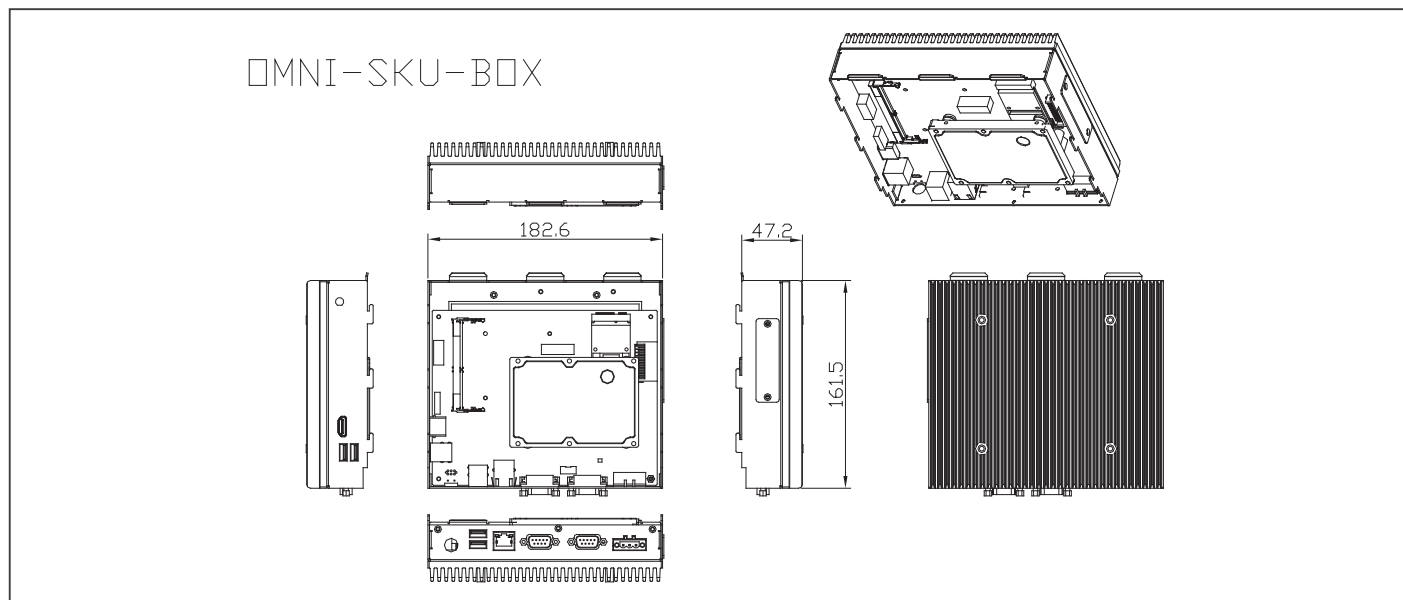
OMNI-SKU CPU-BOX Kit

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OMNI Series: Modular Builder - BOX Kit

Dimension

Unit: mm



Ordering Information

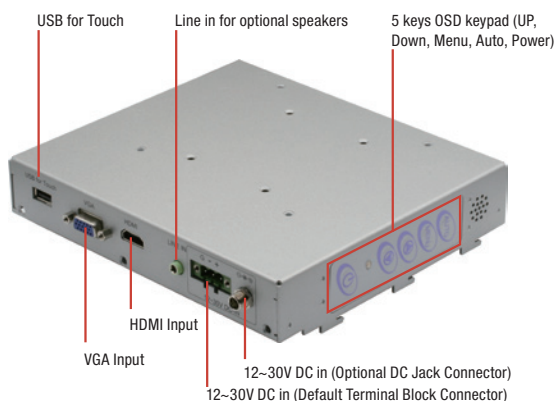
Part Number	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Mounting	Power	Operating Temp.
OMNI-SKU-KIT-A1-1110	Intel® i5-6300U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow
OMNI-SKU-KIT-A2-1110	Intel® C-3955U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow
OMNI-SKU-KIT-A3-1110	Intel® i7-6600U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow
OMNI-SKU-KIT-A4-1110	Intel® i3-6100U Processor	1	4	—	—	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size) OMNI Module	Wallmount	DC 9~30V	-20°C ~ 55°C with airflow

Packing List

- Phoenix Power Connector
- OMNI-SKU CPU BOX Kit

Optional Accessories

- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- M0421550A0
OMNI BOX Bottom Cover
- 170203180E
Power Cord (Japanese Type)



Features

- Compatible with OMNI Series Modules- Panels: to Build Your Own OMNI Display
- No any Firmware Changes Needed to Combine with 7 Sizes OMNI Panel Modules
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

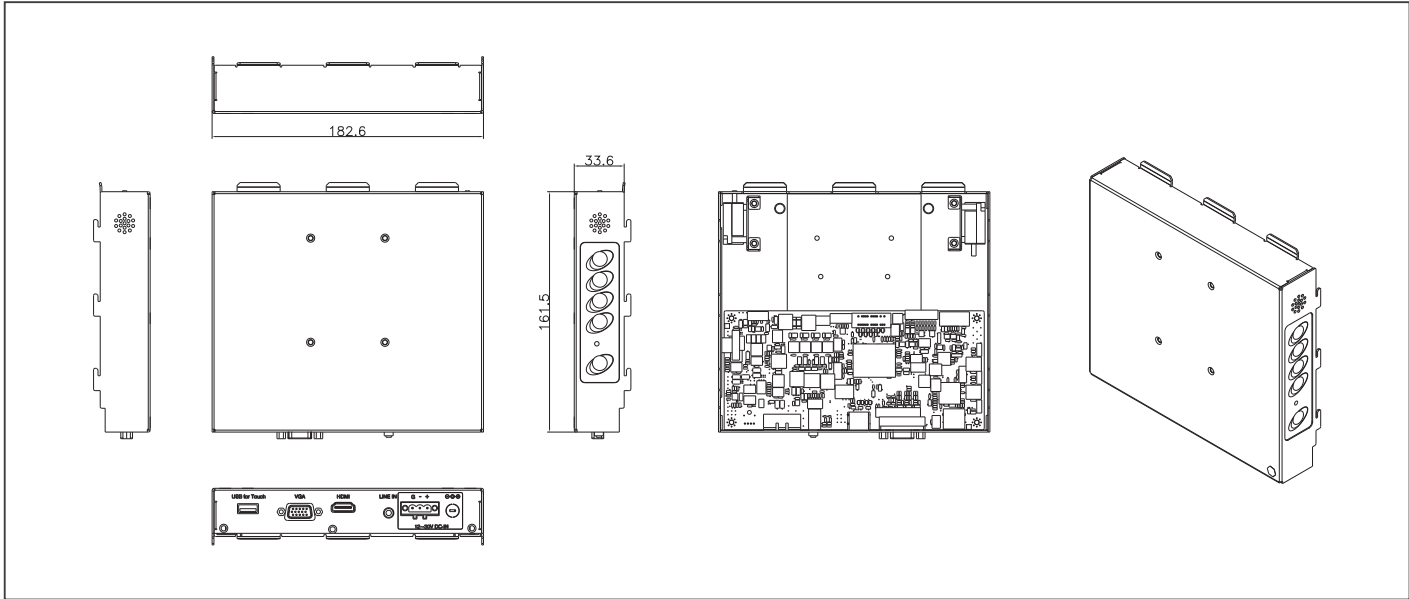


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 x 1 for VGA HDMI x 1 USB Type A x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Default Terminal Block 3pin)
OS Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	Metal chassis
Mounting	Must be assembled with OMNI-Series Modules-Panels
Dimension	5.1" x 6.4" x 1.2" (128.6mm x 161.5mm x 30.7mm)
Carton Dimension	12.3" x 10.1" x 7.6" (312mm x 257mm x 194mm)
Gross Weight	5.5 lb (2.5 kg)
Net Weight	2.6 lb (1.2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
DC Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	Depends on your OMNI Panel Modules
Max. Resolution	
Max. Colors	
Luminance	
Viewing Angle	
Back Light	
Back Light MTBF (Hours)	
Touchscreen	
Type	Depends on your OMNI Panel Modules
Light Transmission	
Life Time	

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Other
OMNI-ADB-KIT-A1-1010	—	—	—	—	—	VGA x 1 HDMI x 1	Mount with OMNI Panel Modules	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	—	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-ADB-Kit

Optional Accessories

- 125530040F
(TF)AC/DC Adapter.12V.40W.3.33A.FSP:3p phoenix.
FSP040-DHAN3.9NA0406819
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)

I/O Modules

9741215501 - Mini Card x 2 & SIM Card x 2 Module

Mini PCIe Slot x 2, for OMNI Panel PC Only



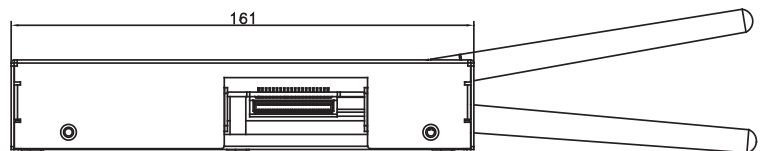
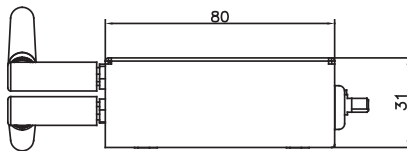
Features

- Full-size Mini-Card Slot x 2
- SIM Card Slot x 2
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- **9741215501**
Mini Card x 2 & SIM Card x 2 Module (wireless Mini-Card Module Excluded)

Dimension Unit: mm



9741215502 - Dual LAN Module

Gigabit Ethernet x 2, for OMNI Panel PC only



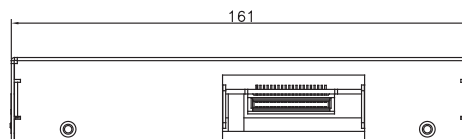
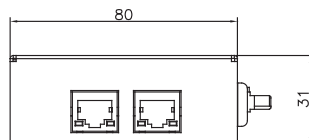
Features

- Gigabit Ethernet x 2
- Intel® i211 Chipset
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- **9741215502**
Dual LAN Module

Dimension Unit: mm



I/O Modules

9741215506 - DIO Module

DIO without Isolation x 8, for OMNI Panel PC only



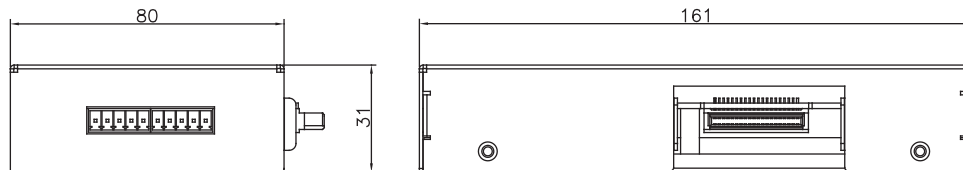
Features

- DIO x 8 (3.3 Vac)
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information

- 9741215506
DIO Module

Dimension Unit: mm



9741215508 - Audio Module

MIC-In x 1, Line-out x 1, for OMNI Panel PC only



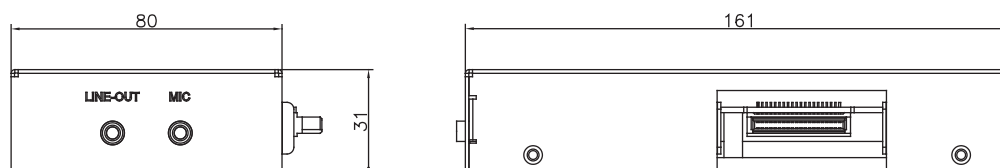
Features

- Mic in x 1
- Line out x 1
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information

- 9741215508
Audio Module

Dimension Unit: mm



I/O Modules

9741215510 - HMS Kit

10/100 Ethernet x 2, for OMNI Panel PC Only



Features

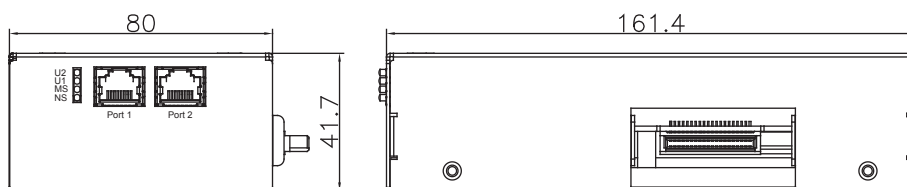
- 10/100 Ethernet x 2, Anybus
- Support All Major Industrial Ethernet and Fieldbus Networks
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

* Due to communication protocol limit, only for EU region

Ordering Information

- 9741215510
HMS Kit

Dimension Unit: mm



9741215512

WiFi 802.11 b/g/n Module



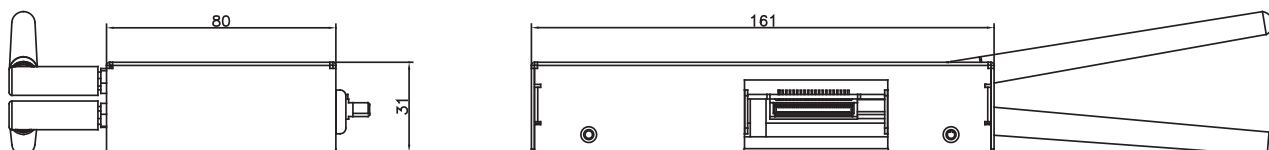
Features

- Supports 802.11b/g/n
- Supports BT 4.0
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information

- 9741215512
WIFI 802.11 b/g/n Module

Dimension Unit: mm



9741215513

RS-485/422/232 Module



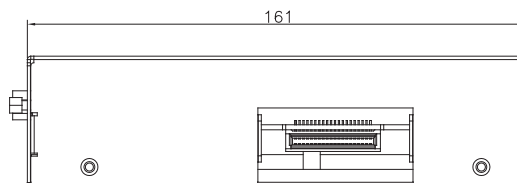
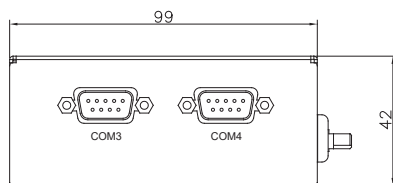
Features

- RS-232/422/485 x 2
- Selection by Jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- 9741215513
RS-485/422/232 Module

Dimension Unit: mm



9741215515

OMNI USB/COM/LAN Module



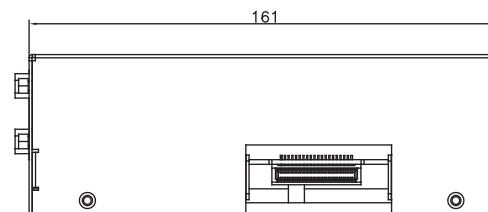
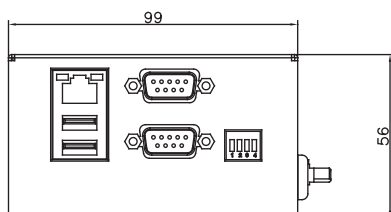
Features

- USB 2.0 x 2
- RS-232/422/485 x 2 (Selection by External Switch)
- Gigabit Ethernet x 1
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Ordering Information

- 9741215515
USB/COM/LAN Module

Dimension Unit: mm



I/O Modules

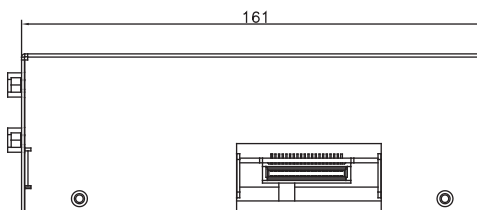
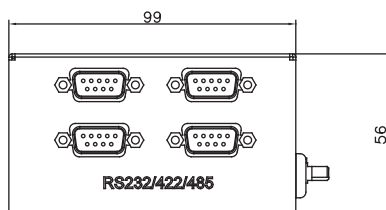
9741215516

OMNI COM x 4 Module



Dimension

Unit: mm



Features

- RS-232/422/485 x 4
- Selection by internal jumper
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

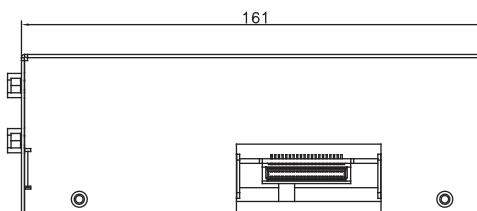
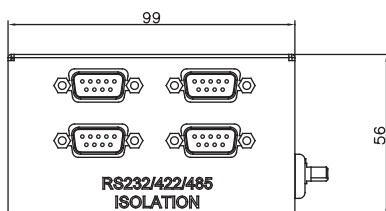
9741215517

OMNI Isolated COM Module



Dimension

Unit: mm



Features

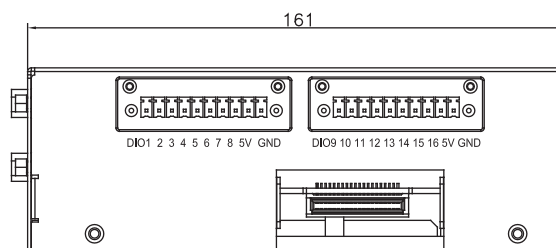
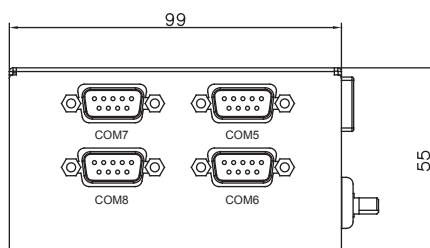
- Isolated RS-232/422/485 x 4
- 2K VDC Isolation
- Selection by internal jumper
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above



Features

- DB-9 Isolated RS-232/422/485 x 4
- DIO x 16
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

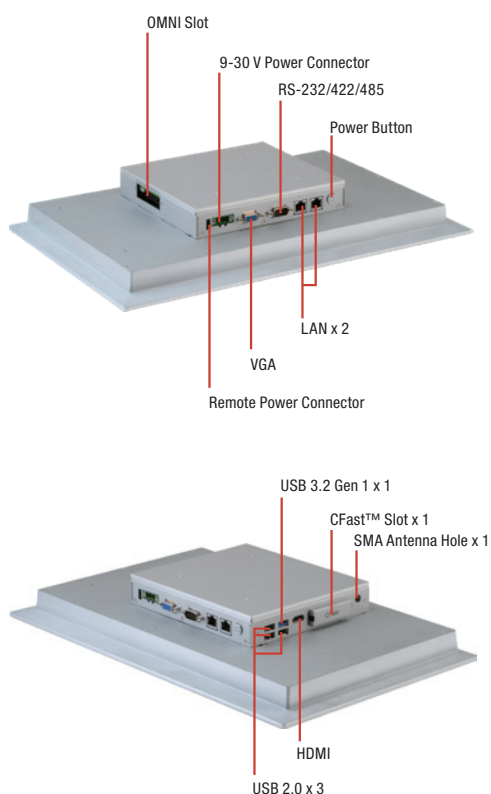
Dimension Unit: mm



OMNI Series : Modular Touch Panel Solutions

13





Features

- Intel® Celeron® J1900/ N2807 Processor
- 15.6" (1366 x 768) TFT LCD Display
- Flat Screen with P-CAP or Resistive Touch Screen
- Easily Expandable I/O by AAEON OMNI I/O Modules
- Multiple Touchscreen
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Support Remote Power On/Off Connector
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection

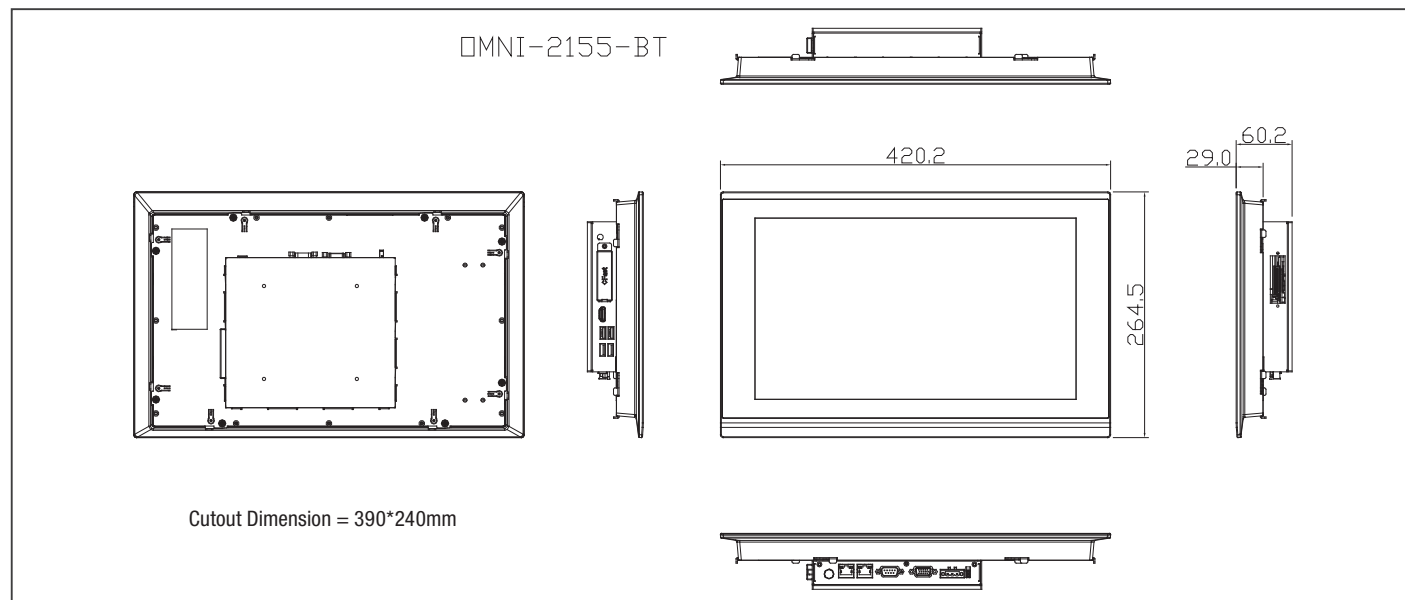


Specifications

System	
Processor	Intel® Celeron® J1900, 2.0 GHz/ N2807, 1.58 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB (J1900), 4 GB (N2807)
LCD/CRT Controller	Integrated in Processor
Ethernet	10/100/1000Base-TX, RJ-45 x 2
I/O Port	USB Type A x 1 for USB 3.2 Gen 1, USB Type A x 3 for USB 2.0 SMA antenna hole x 1, HDMI x 1 CFast™ x 1, DB-9 for RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 V DC power input LED Power On/Off Switch x 1 (Power on = orange, Power off = N/A)
Storage Disk Drive	CFast™ socket x 1, SATA 2.5" HDD bay x 1
Expansion Slot	Mini-Card x 2 (Full Size), OMNI I/O Connector x 1, SIM x 2
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum front bezel + metal chassis
Mounting	VESA 100/ Panel mount
Dimension	16.54" x 10.43" x 2.36" (420mm x 265mm x 60mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	14.1 lb (6.4kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: N2807) -4°F ~ 131°F (-20°C ~ 55°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: J1900)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C, non-condensing
Vibration	1 Grms/ 5 ~ 500 Hz/ Operation (HDD)
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
LCD	
Display Type	15.6" TFT-LCD, LED backlight
Max Resolution	1366 x 768
Max. Colors	16.7M colors (8-bit for R,G,B)
Luminance	400 cd/m²
Viewing Angle	160° (H), 140° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2155HTT-BT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-BT-A2-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-BT-A3-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2155HTT-BT-A4-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-215DHTT-KIT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~55°C with airflow	5-wire Resistive	No
	OMNI-215DHTT-KIT-A2-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-2155

Optional Accessories

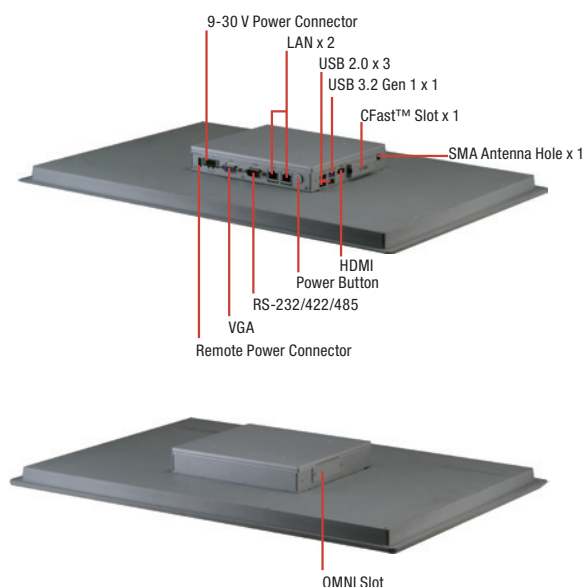
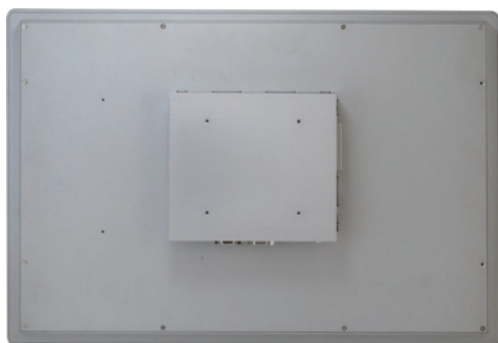
- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

- **9741215501**
Mini Card x 2, SIM x 2 Module
- **9741215502**
Dual LAN Module
- **9741215506**
DIO Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit (Europe Limitation)
- **9741215512**
Wifi 802.11/b/g/n Module
- **9741215513**
RS-485/422/232 x 2 Module
- **9741215515**
USB/ COM/ LAN Module
- **9741215516**
RS-485/422/232 x 4 Module
- **9741215517**
Isolation RS-485/422/232 x 4 Module
- **9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 21.5" FHD (1920 x 1080) Color TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Multiple Touchscreen
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection
- Easily Expandable I/O by AAEON OMNI I/O Modules

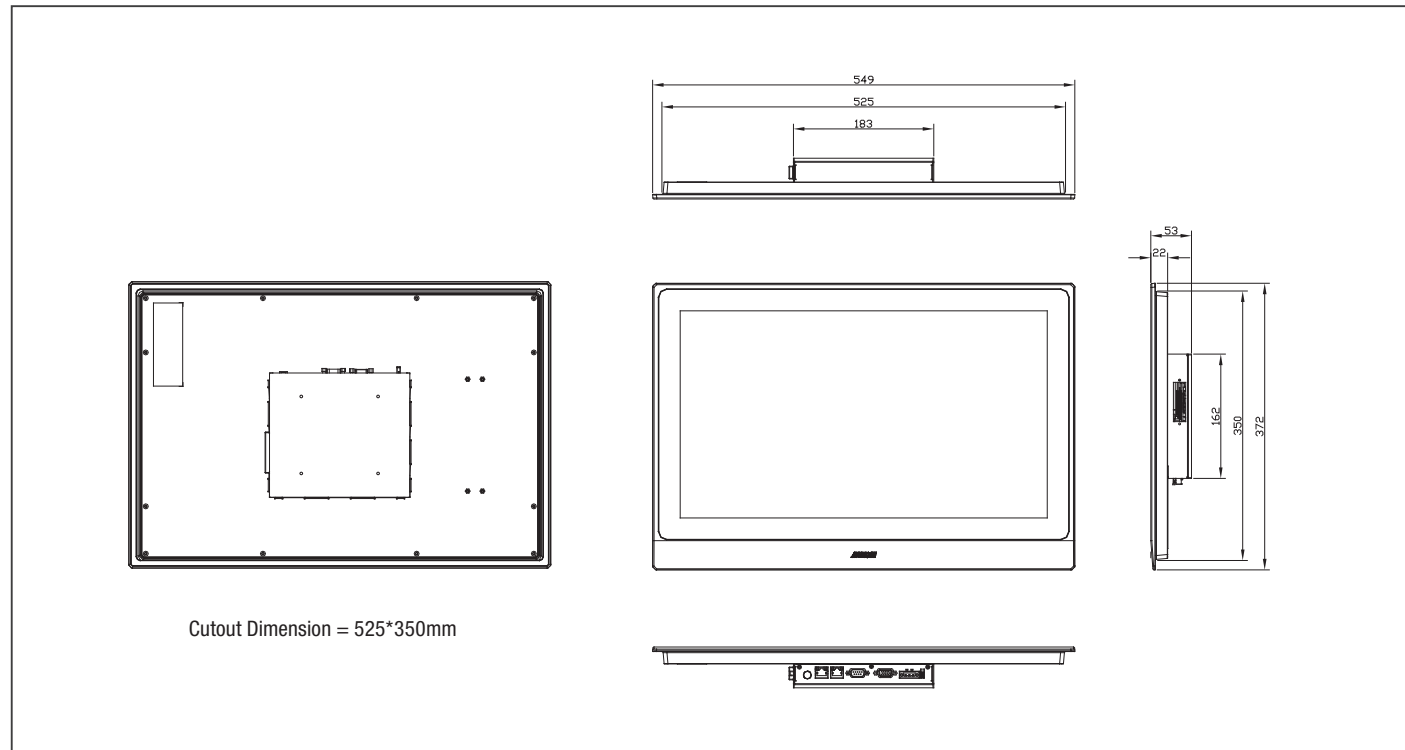


Specifications

System	
Processor	Intel® Celeron® J1900, 2.0 GHz/ N2807, 1.58 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB (J1900), 4 GB (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	10/100/1000Base-TX, RJ-45 x 2
I/O Port	USB Type A x 1 for USB 3.2 Gen 1, USB Type A x 3 for USB 2.0 SMA antenna hole x 1, HDMI x 1 CFast™ x 1, DB-9 for RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 V DC power input LED Power On/Off Switch x 1 (Power on = orange, Power off = N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full size Mini-Card x 2, OMNI I/O Connector x 1, SIM x 2
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher
Mechanical	
Construction	Aluminum front bezel + metal chassis
Mounting	VESA 100/ Panel mount
Dimension	21.65" x 14.69" x 2.1" (550mm x 373mm x 53mm)
Carton Dimension	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)
Gross Weight	19.6 lb (8.9 Kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: N2807) -4°F ~ 131°F (-20°C ~ 55°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: J1900)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C, non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
LCD	
Display Type	21.5" TFT-LCD, LED
Max Resolution	1920 x 1080
Max. Colors	16.7M colors (RGB 8-bit)
Luminance	250 cd/m²
Viewing Angle	178° (H), 178° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2215HTT-BT-A1-1012	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2215HTT-BT-A2-1012	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-2215HTT-BT-A3-1013	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2215HTT-BT-A4-1013	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-221DHTT-KIT-A1-1012	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-221DHTT-KIT-A2-1013	21.5" TFT LCD	1920 x 1080	250 cd/m ²	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-2215-BT

Optional Accessories

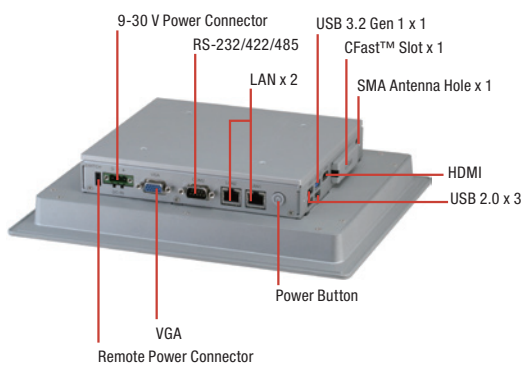
- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

- **9741215501**
Mini Card x 2, SIM x 2 Module
- **9741215502**
Dual LAN Module
- **9741215506**
DIO Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit (Europe Limitation)
- **9741215512**
Wifi 802.11/b/g/n Module
- **9741215513**
RS-485/422/232 x 2 Module
- **9741215515**
USB/ COM/ LAN Module
- **9741215516**
RS-485/422/232 x 4 Module
- **9741215517**
Isolation RS-485/422/232 x 4 Module
- **9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 10.4" (800 x 600) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

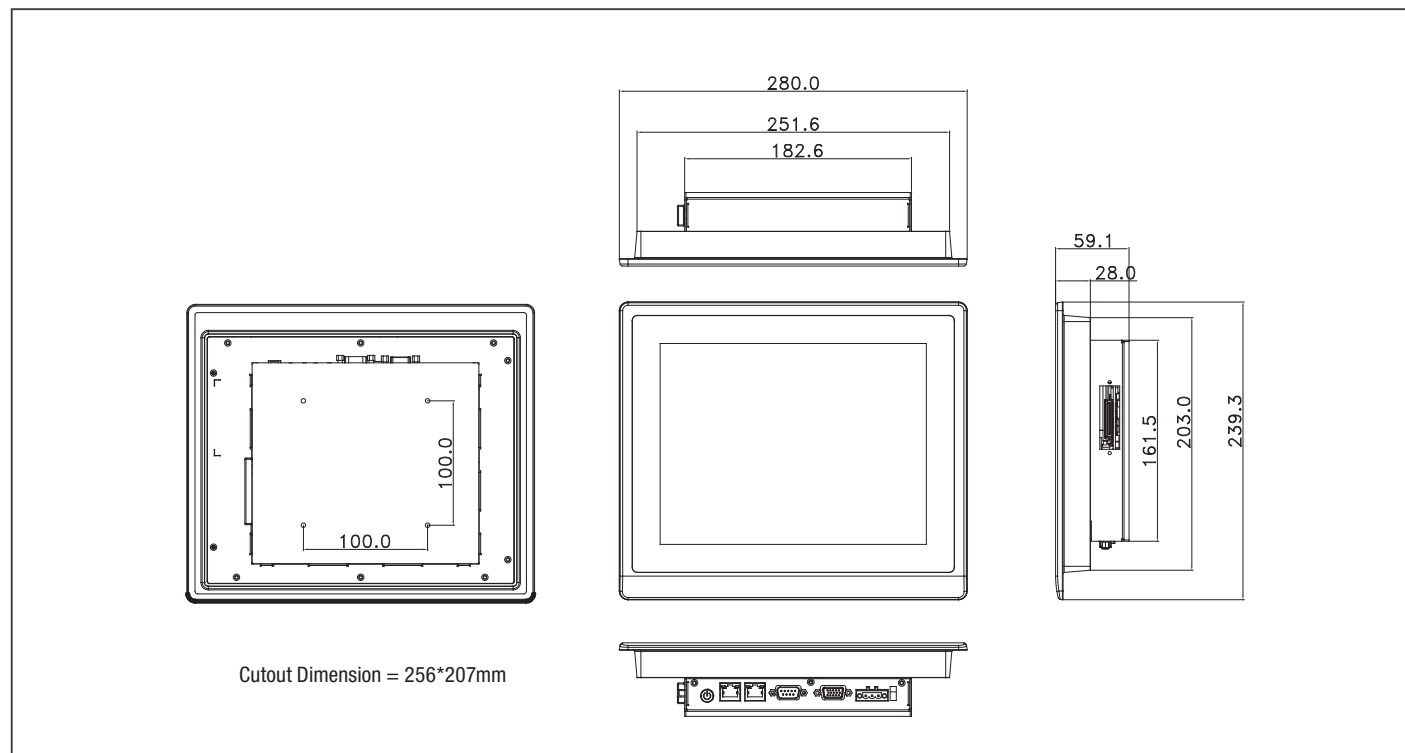


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz, Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for GbE LAN DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux Kernal 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	11.02" x 9.41" x 2.32" (280 mm x 239 mm x 59 mm)
Carton Dimension	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)
Gross Weight	7.92 lb (3.6 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
LCD	
Display Type	10.4" TFT-LCD, LED
Max Resolution	800 (H) x 600 (V)
Max. Colors	16.2M colors
Luminance	230 cd/m²
Viewing Angle	120° (H), 100° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3105HTT-BT-A1-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	No
	OMNI-3105HTT-BT-A2-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-3105HTT-BT-A3-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	No
	OMNI-3105HTT-BT-A4-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	No
Panel Kit	OMNI-310DHTT-KIT-A1-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-310DHTT-KIT-A2-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

* Due to size limitation, OMNI Expansion Modules only support the panel size starting from 15" (excluding 10.4", 12.1") by OMNI slot interface.

Packing List

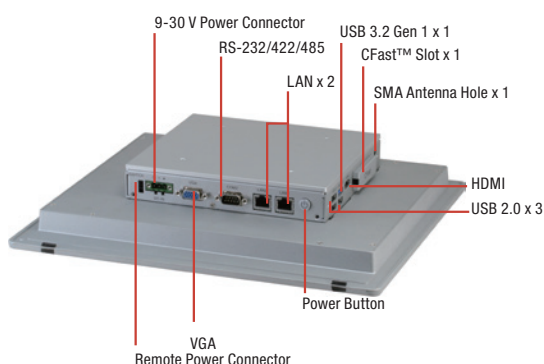
- Phoenix Power Connector
- OMNI-3105-BT

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
- **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C

Optional Accessories

- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**
Remote Switch Cable, 150cm



Features

- 12.1" (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

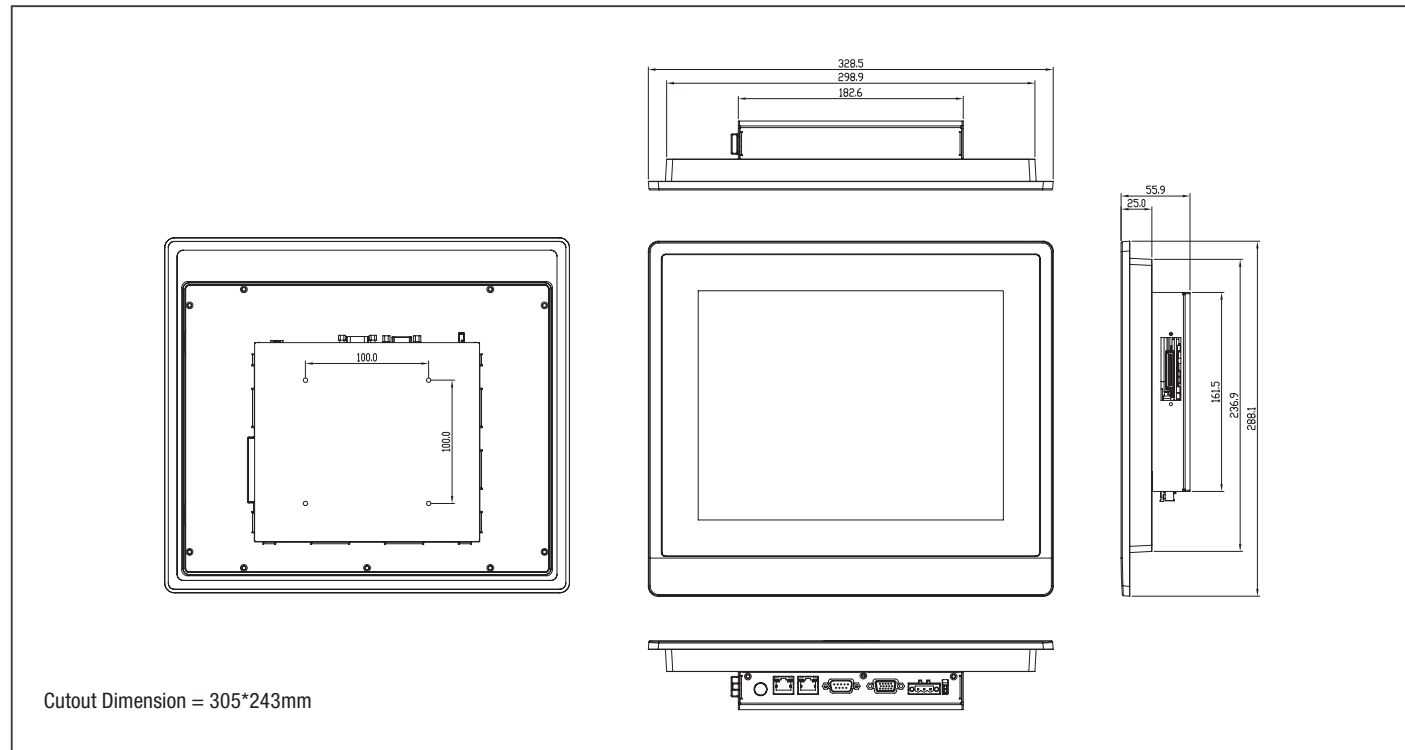


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® i211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	12.95" x 11.34" x 2.2" (329 mm x 288 mm x 56 mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	11 lb (5.0 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M colors
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3125HTT-BT-A1-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-BT-A2-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-BT-A3-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	No
	OMNI-3125HTT-BT-A4-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	No
Panel Kit	OMNI-312DHTT-KIT-A1-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-312DHTT-KIT-A2-1011	12.1" TFT LCD	1024 X 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

* Due to size limitation, OMNI Expansion Modules only support the panel size starting from 15" (excluding 10.4", 12.1") by OMNI slot interface.

Packing List

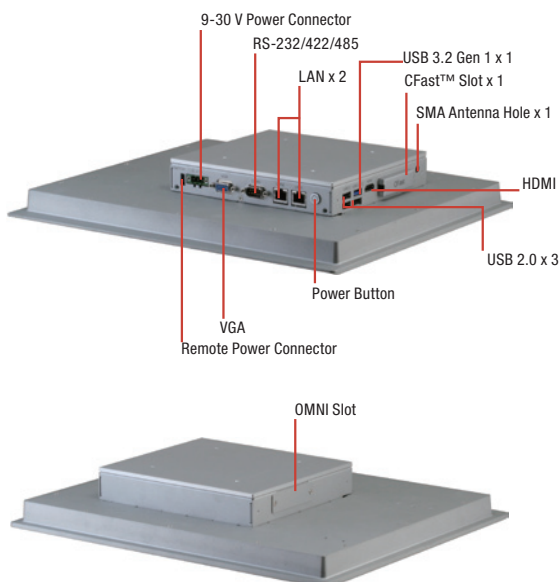
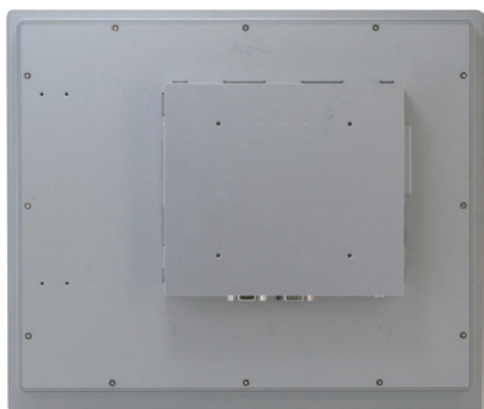
- Phoenix Power Connector
- OMNI-3125-BT

Wide Temperature DRAM

- 9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

Optional Accessories

- AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100
- 1702031802**
Power Cord (US Type)
- 1702031803**
Power Cord (European Type)
- 170203180E**
Power Cord (Japanese Type)
- 1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- 9741312500**
Panel Mount Kit for OMNI-3125-BT



Features

- 15" (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

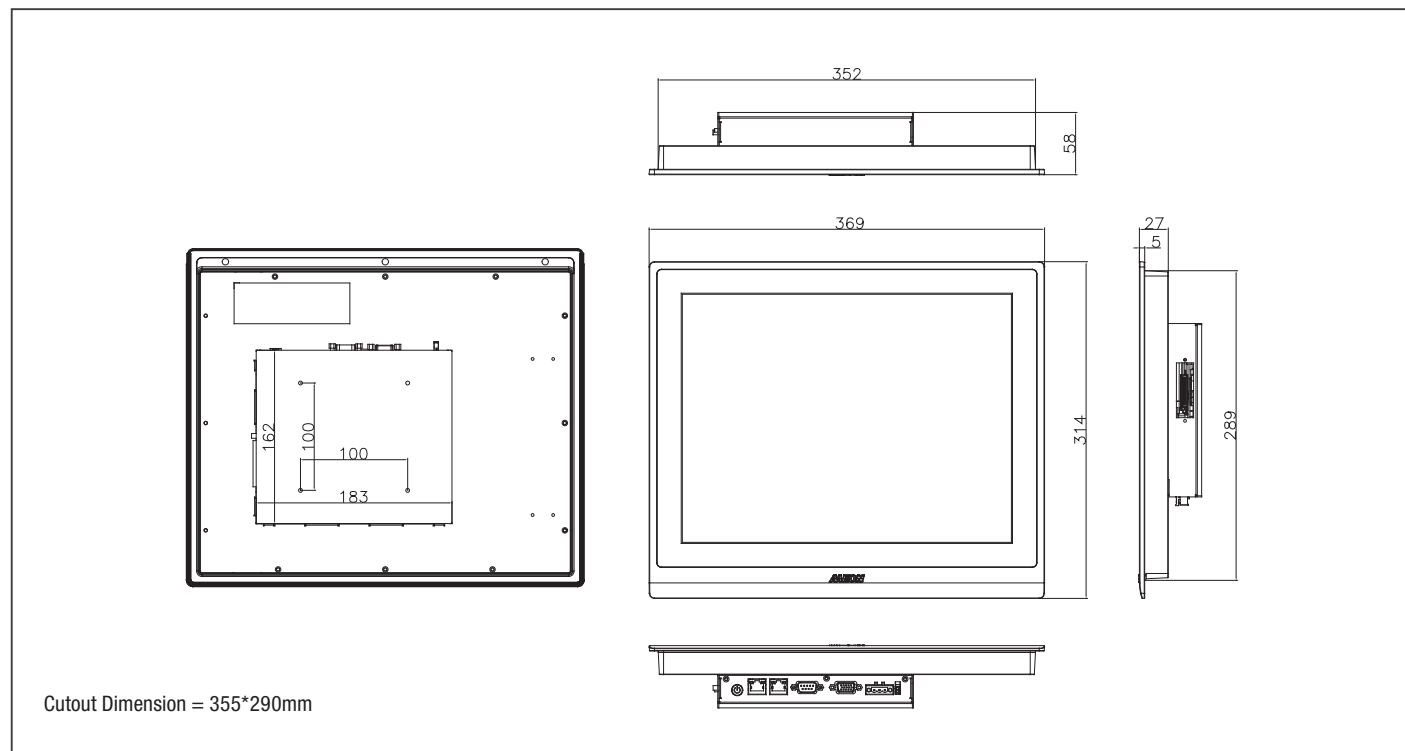


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	14.53" x 12.36" x 2.28" (369 mm x 314 mm x 58 mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	13.97 lb (6.35 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3155HTT-BT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-BT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-BT-A3-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3155HTT-BT-A4-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-3155DHTT-KIT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-3155DHTT-KIT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3155-BT

Optional Accessories

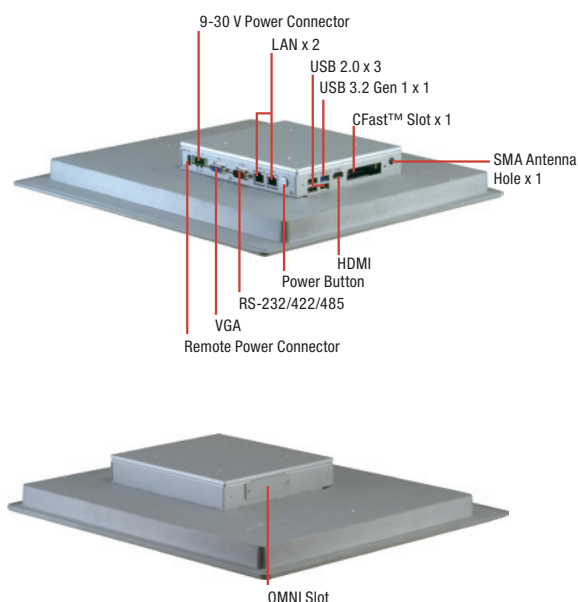
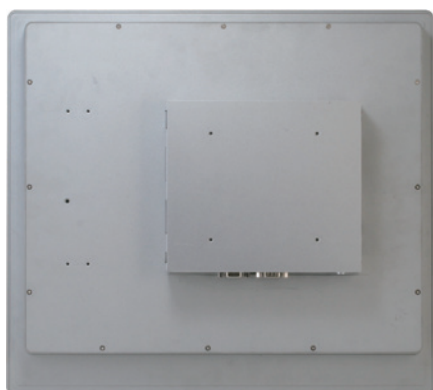
- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**
Remote Switch Cable, 150 cm

OMNI Module (with AAEON Interface)

- **9741215501**
Mini Card x 2, SIM x 2 Module
- **9741215502**
Dual LAN Module
- **9741215506**
DIO Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit (Europe Limitation)
- **9741215512**
Wifi 802.11/b/g/n Module
- **9741215513**
RS-485/422/232 x 2 Module
- **9741215515**
USB / COM / LAN Module
- **9741215516**
RS-485/422/232 x 4 Module
- **9741215517**
Isolation RS-485/422/232 x 4 Module
- **9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 17" (1280 x 1024) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

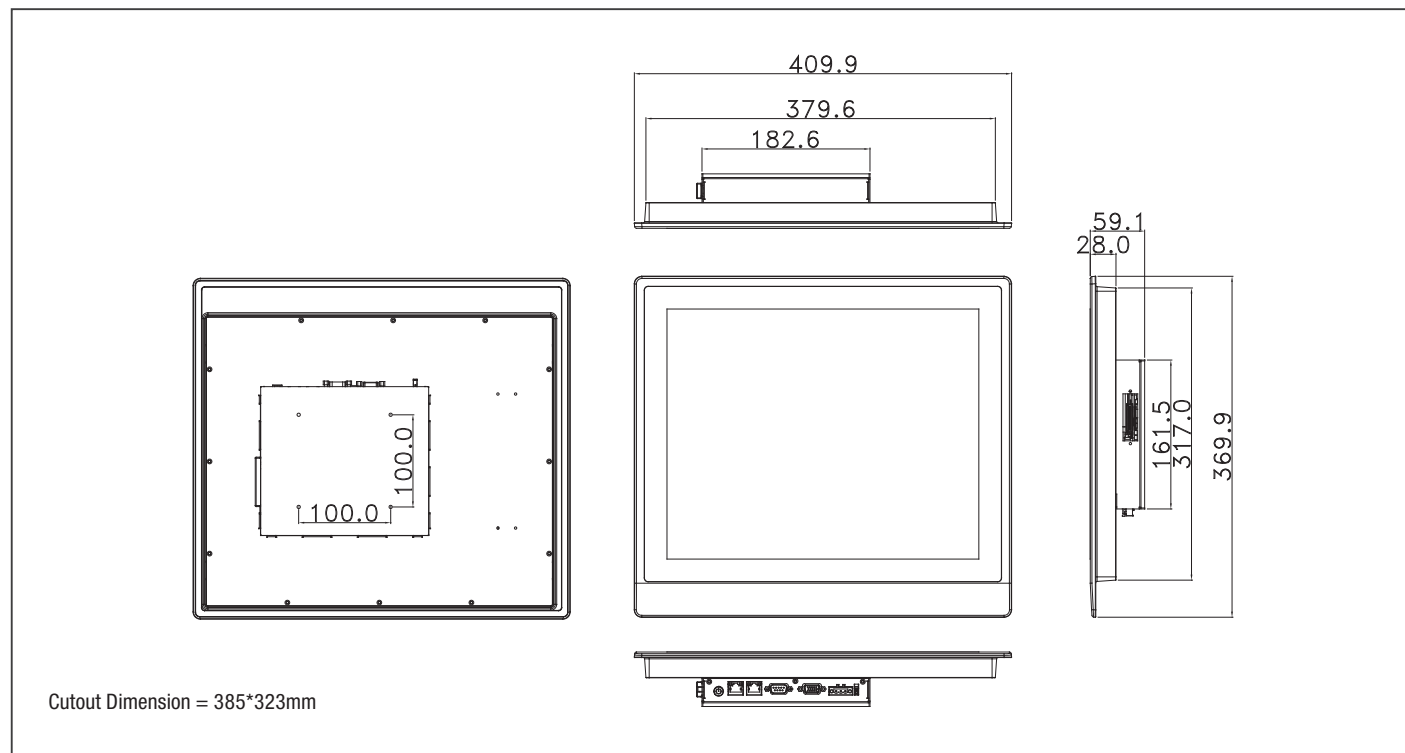


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/Panel Mount
Dimension	16.14" x 14.57" x 2.32" (410mm x 370mm x 59mm)
Carton Dimension	20.55" x 10.31" x 19.29" (522mm x 262mm x 490mm)
Gross Weight	15.84 lb (7.2 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3175HTT-BT-A1-1012	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3175HTT-BT-A2-1012	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-3175HTT-BT-A3-1011	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3175HTT-BT-A4-1011	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-317DHTT-KIT-A1-1012	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-317DHTT-KIT-A2-1011	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3175-BT

Optional Accessories

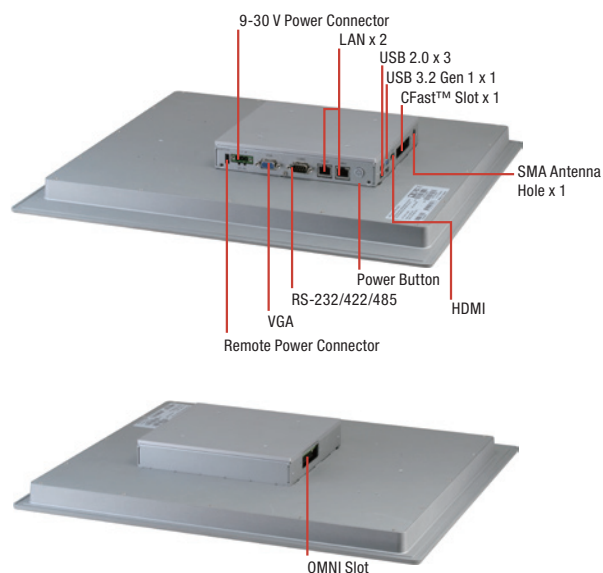
- AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- 1702031802**
Power Cord (US Type)
- 1702031803**
Power Cord (European Type)
- 170203180E**
Power Cord (Japanese Type)
- 1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- 1700021500**
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

- 9741215501**
Mini Card x 2, SIM x 2 Module
- 9741215502**
Dual LAN Module
- 9741215506**
DIO Module
- 9741215508**
Audio Module
- 9741215510**
HMS Kit (Europe Limitation)
- 9741215512**
Wifi 802.11/b/g/n Module
- 9741215513**
RS-485/422/232 x 2 Module
- 9741215515**
USB / COM / LAN Module
- 9741215516**
RS-485/422/232 x 4 Module
- 9741215517**
Isolation RS-485/422/232 x 4 Module
- 9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - 9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 19" (1280 x 1024) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

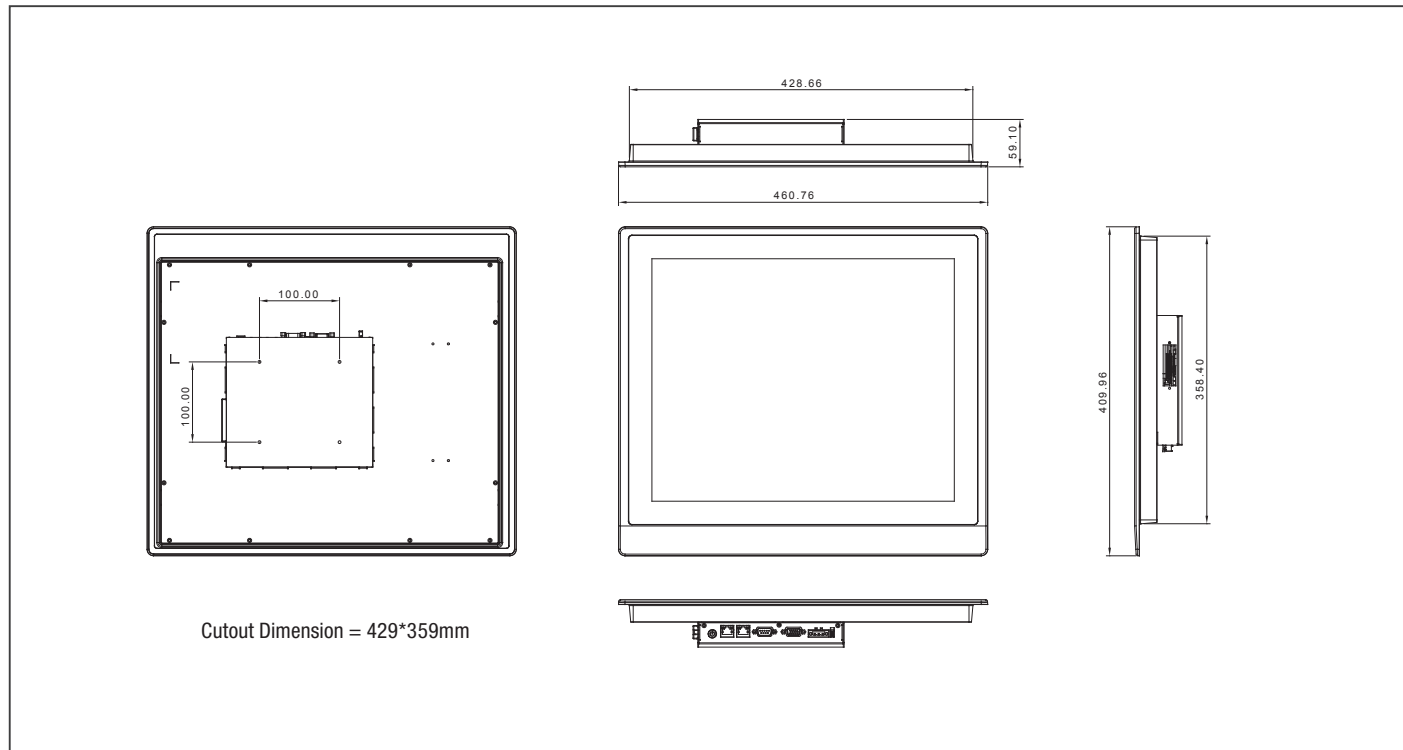


Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000 Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 2, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/Panel mount
Dimension	18.15" x 16.14" x 2.32" (461 mm x 410 mm x 59 mm)
Carton Dimension	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
Gross Weight	19.36 lb (8.8 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	19" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors
Luminance	350 cd/m²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3195HTT-BT-A1-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3195HTT-BT-A2-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	5-wire Resistive	Yes
	OMNI-3195HTT-BT-A3-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3195HTT-BT-A4-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-319DHTT-KIT-A1-1012	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive	No
	OMNI-319DHTT-KIT-A2-1011	19" TFT LCD	1280 x 1024	350 cd/m ²	170°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~55°C with airflow	—	Yes
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-10°C~60°C with airflow	—	Yes

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3195-BT

Optional Accessories

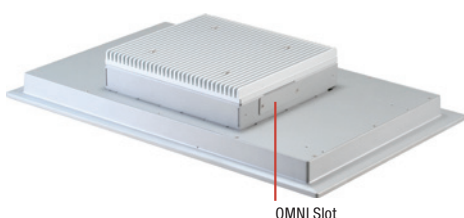
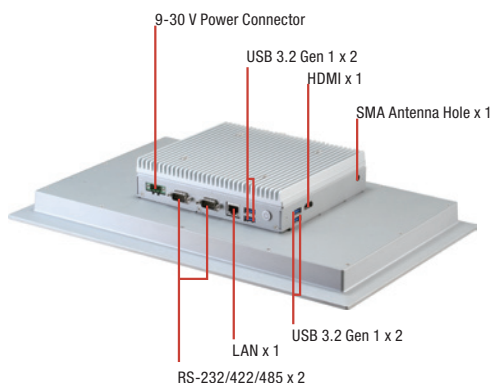
- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**
Remote Switch Cable, 150 cm

OMNI Module (With AAEON Interface)

- **9741215501**
Mini Card x 2, SIM x 2 Module
- **9741215502**
Dual LAN Module
- **9741215506**
DIO Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit (Europe Limitation)
- **9741215512**
Wifi 802.11/b/g/n Module
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RS-485/422/232 x 4 Module
- Module
- **9741215517**
Isolation RS-485/422/232 x 4 Module
- **9741215518**
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 15.6" (1366 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection
- Easily Expandable I/O by AAEON OMNI I/O Modules

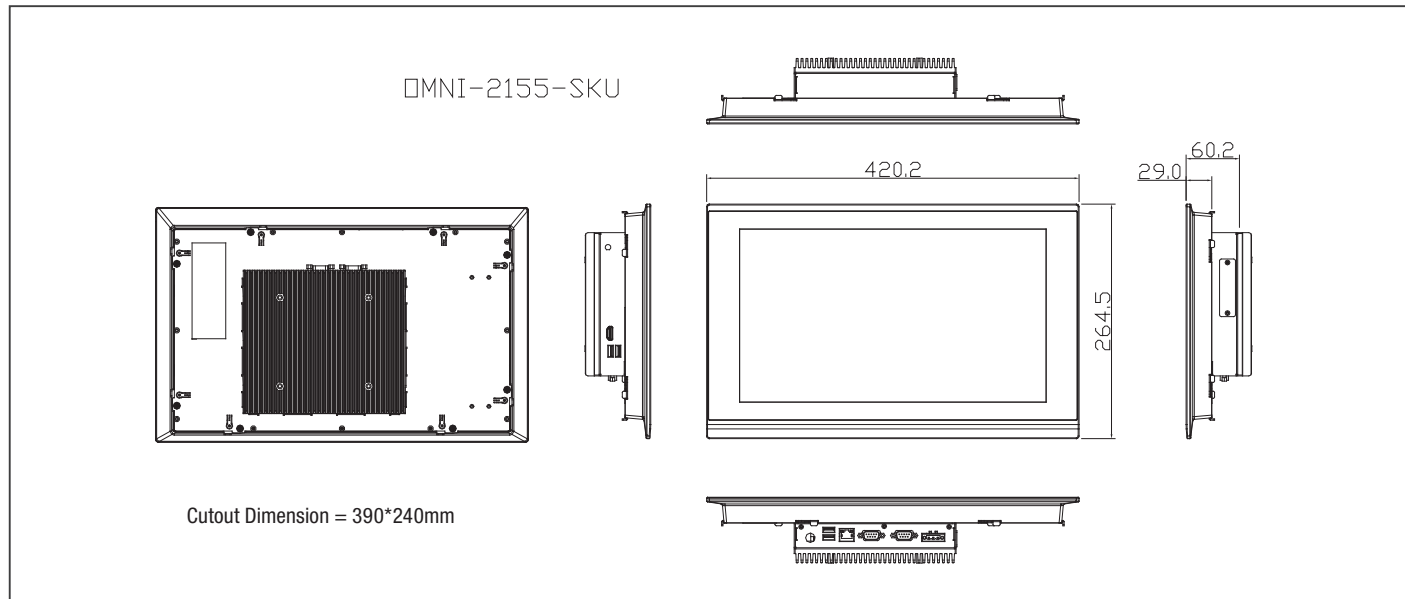


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1 Windows® 10 (64 bit) Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	16.54" x 10.43" x 2.87" (420 mm x 265 mm x 73 mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	14.96 lb (6.8 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	1366 (H) x 768 (V)
Max. Colors	16.7M (8 bit/color)
Luminance	400 cd/m ²
Viewing Angle	160 (H), 140 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2155HTT-SKU-A1-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-SKU-A2-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2155HTT-SKU-A3-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2155HTT-SKU-A4-1012	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-215DHTT-KIT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-215DHTT-KIT-A2-1011	15.6" TFT LCD	1366 x 768	400 cd/m ²	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included *

Packing List

- Phoenix Power Connector
- OMNI-2155-SKU

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

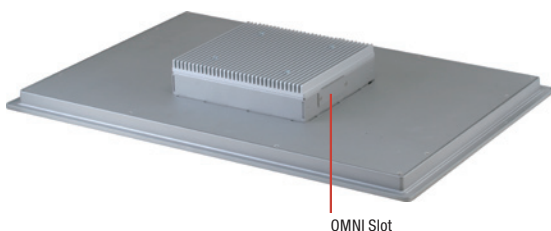
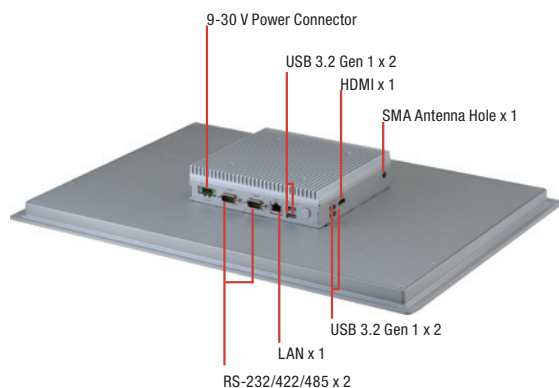
OMNI Module (with AAEON Interface)

- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB/COM/LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- AP-DR968D4004G9
4GB Wide Temperature DRAM (-40°C ~ 85°C)
- AP-DR968D4008GA
8GB Wide Temperature DRAM (-40°C ~ 85°C)
- AP-DR968D4016G7
16GB Wide Temperature DRAM (-40°C ~ 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 21.5" (1920 x 1080) TFT LCD Display
- Intel® 6th Generation Core™ i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

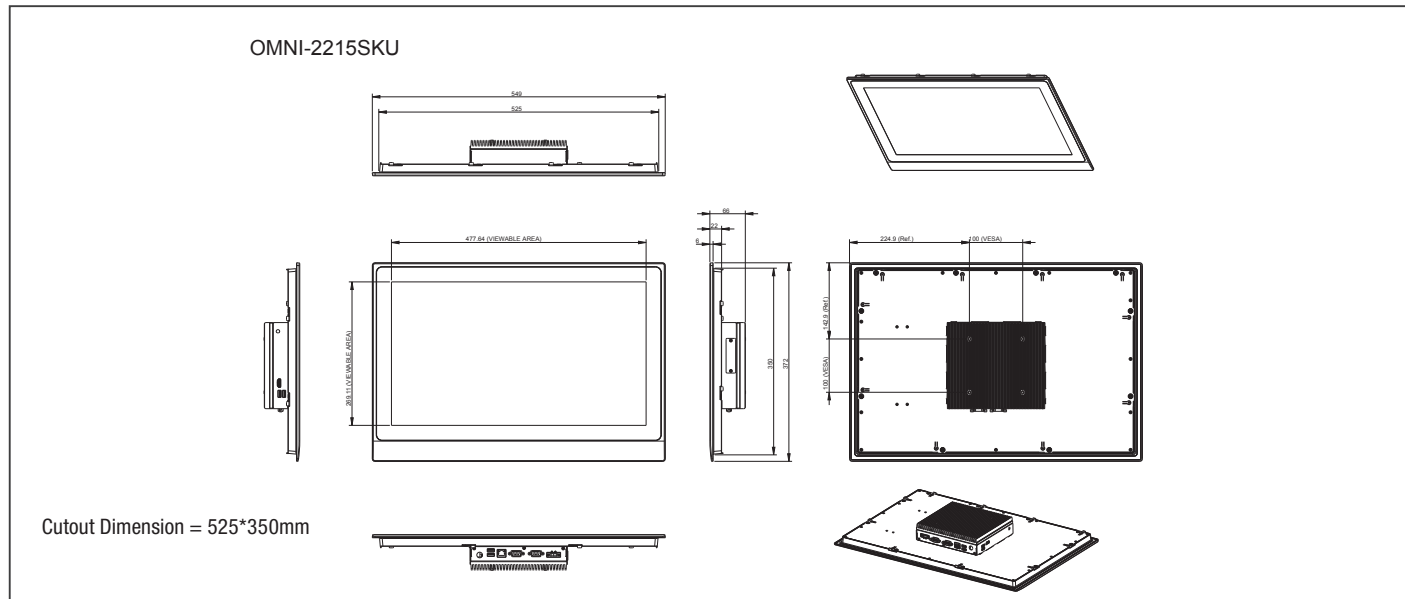


Specifications

System	
Processor	Intel® Core™ i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1 Windows® 10 (64 bit) Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	21.7" x 14.7" x 2.6" (550mm x 373mm x 66mm)
Carton Dimension	26.38" x 7.87" x 20.67" (670mm x 200mm x 525mm)
Gross Weight	20.02 lb (9.1 Kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	21.5" TFT-LCD, LED
Max Resolution	1920 (H) x 1080 (V)
Max. Colors	16.7M colors
Luminance	250 cd/m²
Viewing Angle	178 (H), 178 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%), 5-wire Resistive (80% ± 5%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-2215HTT-SKU-A1-1011	21.5" TFT LCD	1920 x 1080	250 cd/m²	178°(H) 178°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2215HTT-SKU-A2-1011	21.5" TFT LCD	1920 x 1080	250 cd/m²	178°(H) 178°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-2215HTT-SKU-A3-1012	21.5" TFT LCD	1920 x 1080	250 cd/m²	178°(H) 178°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-2215HTT-SKU-A4-1012	21.5" TFT LCD	1920 x 1080	250 cd/m²	178°(H) 178°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-221DHTT-KIT-A1-1012	21.5" TFT LCD	1920 x 1080	250 cd/m²	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-221DHTT-KIT-A2-1013	21.5" TFT LCD	1920 x 1080	250 cd/m²	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1010	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1010	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1010	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1010	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-2215-SKU

Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

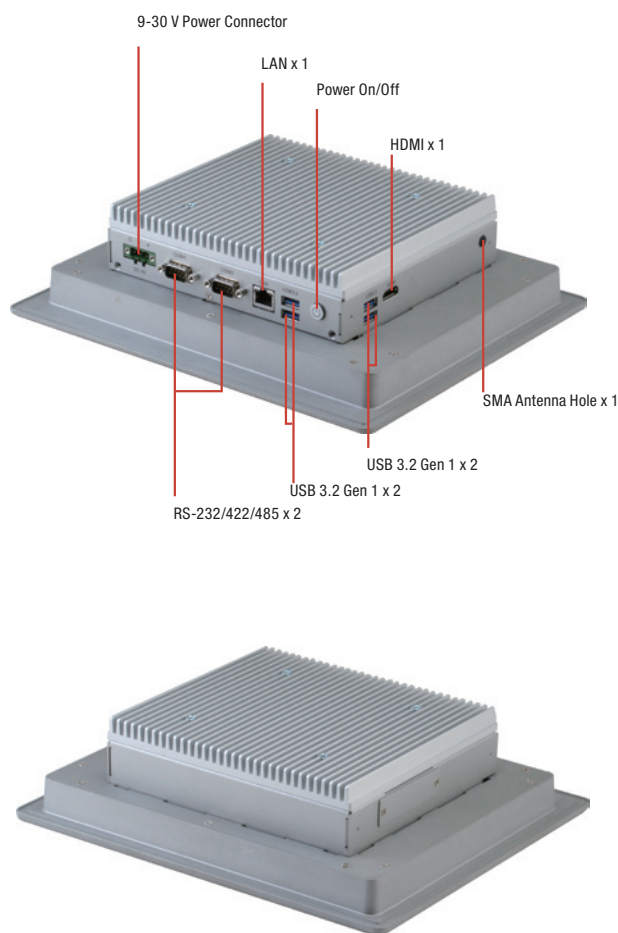
- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11/b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB/COM/LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- AP-DR968D4004G9
4GB Wide Temperature DRAM (-40°C ~ 85°C)
 - AP-DR968D4008GA
8GB Wide Temperature DRAM (-40°C ~ 85°C)
 - AP-DR968D4016G7
16GB Wide Temperature DRAM (-40°C ~ 85°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

OMNI-3105-SKU

10.4" Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor



Features

- 10.4" (800 x 600) TFT LCD Display
- Intel® 6th Generation i5-6300U/ C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

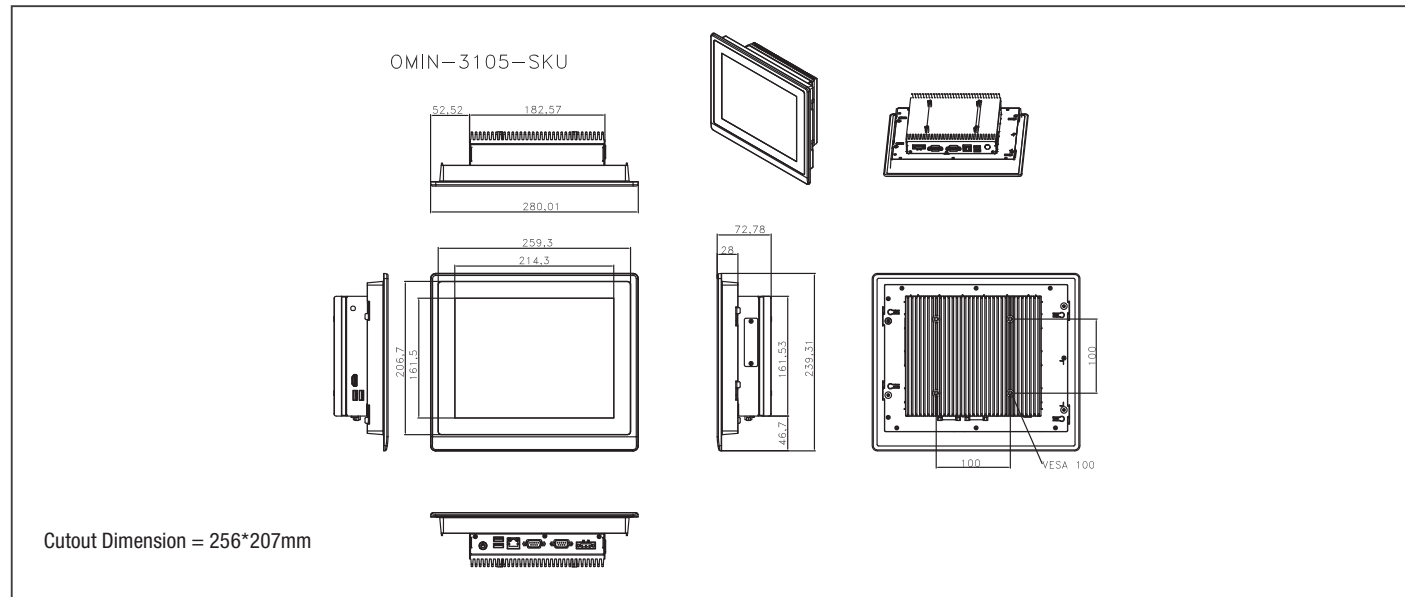


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x 1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	11.02" x 9.41" x 2.87" (280mm x 239mm x 73 mm)
Carton Dimension	16.34" x 7.05" x 15.39" (415mm x 179mm x 391mm)
Gross Weight	8.82 lb (4 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	10.4" TFT-LCD, LED
Max Resolution	800 (H) x 600 (V)
Max. Colors	16.2M colors
Luminance	230 cd/m²
Viewing Angle	120 (H), 100 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3105HTT-SKU-A1-1110	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-3105HTT-SKU-A2-1110	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-3105HTT-SKU-A3-1110	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	No
	OMNI-3105HTT-SKU-A4-1110	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	No
Panel Kit	OMNI-310DHTT-KIT-A1-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-310DHTT-KIT-A2-1011	10.4" TFT LCD	800 x 600	230 cd/m ²	120°(H) 100°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3105-SKU

Optional Accessories

- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255900849**
12V 84W Power Adapter w/3pin Terminal Block

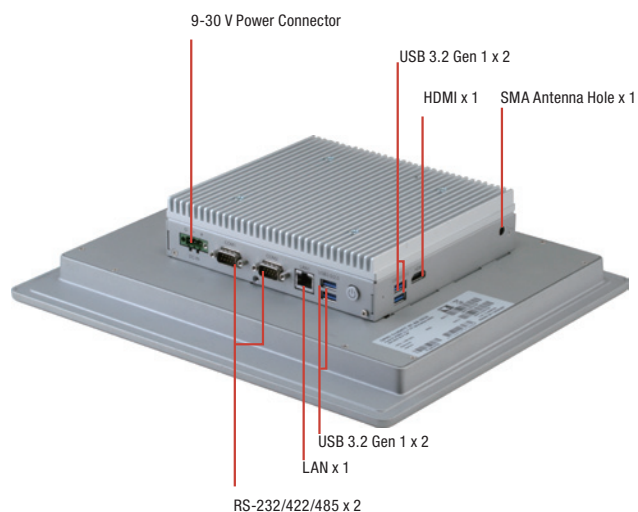
OMNI Module (with AAEON Interface)

- TBD

Wide Temperature DRAM

- **AP-DR968D4004G9**
4GB Wide Temperature DRAM (-40°C ~ 85°C)
- **AP-DR968D4008GA**
8GB Wide Temperature DRAM (-40°C ~ 85°C)
- **AP-DR968D4016G7**
16GB Wide Temperature DRAM (-40°C ~ 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 12.1" (1024 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

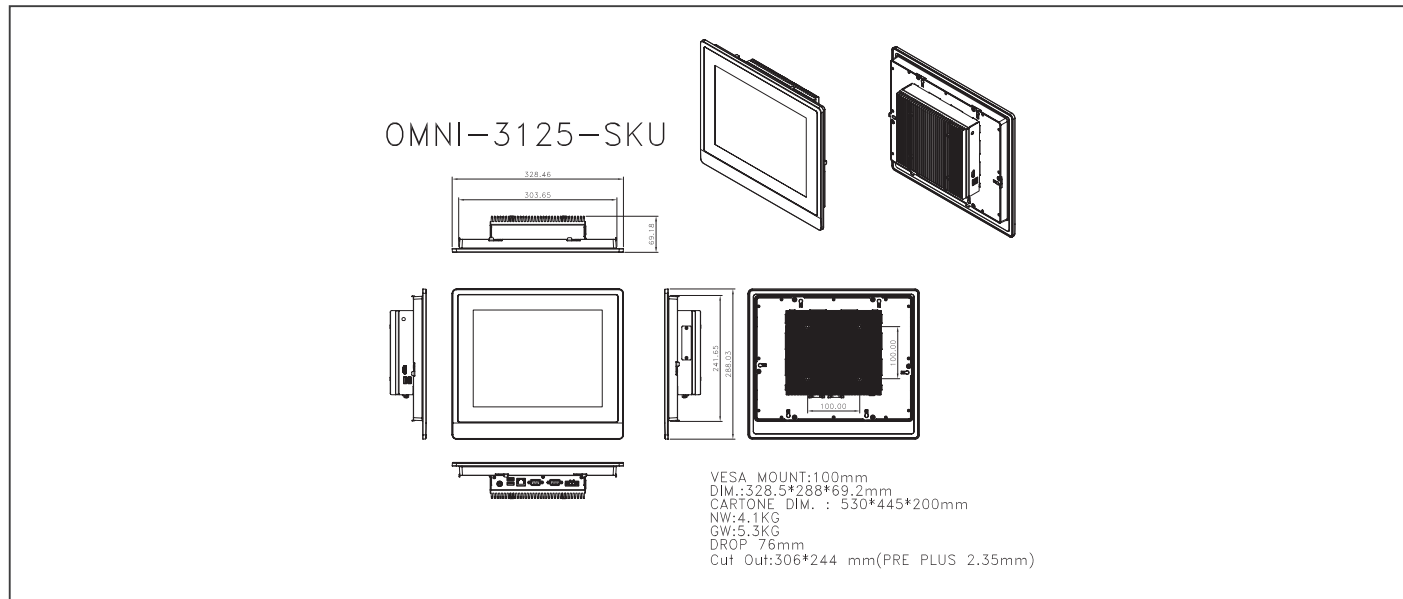


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1 Windows® 10 (64 bit) Linux Kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	12.95" x 11.34" x 2.72" (329mm x 28mm x 69 mm)
Carton Dimension	20.87" x 17.52" x 7.87" (530mm x 445mm x 200mm)
Gross Weight	12.34 lb (5.6 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M colors
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3125HTT-SKU-A1-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-SKU-A2-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-3125HTT-SKU-A3-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	No
	OMNI-3125HTT-SKU-A4-1110	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	No
Panel Kit	OMNI-312DHTT-KIT-A1-1011	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-312DHTT-KIT-A2-1011	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) 160°(V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1110	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1110	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1110	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1110	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3125-SKU

OMNI Module (with AAEON Interface)

- TBD

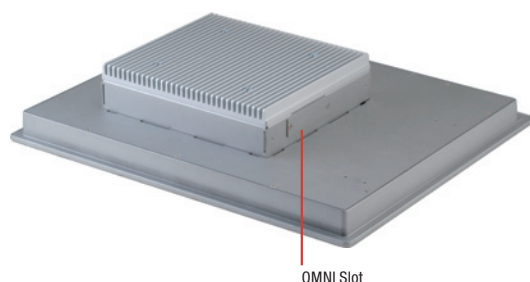
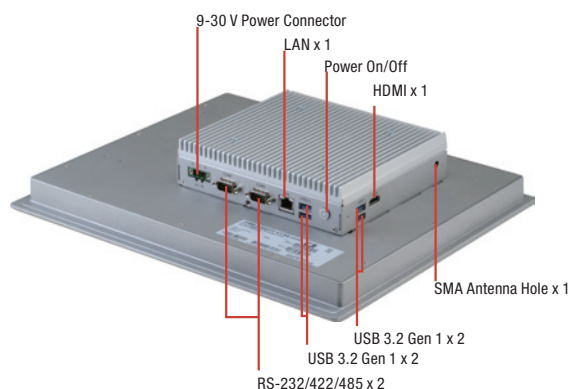
Optional Accessories

- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

Wide Temperature DRAM

- AP-DR968D4004G9
4GB Wide Temperature DRAM (-40°C ~ 85°C)
- AP-DR968D4008GA
8GB Wide Temperature DRAM (-40°C ~ 85°C)
- AP-DR968D4016G7
16GB Wide Temperature DRAM (-40°C ~ 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



Features

- 15" (1024 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

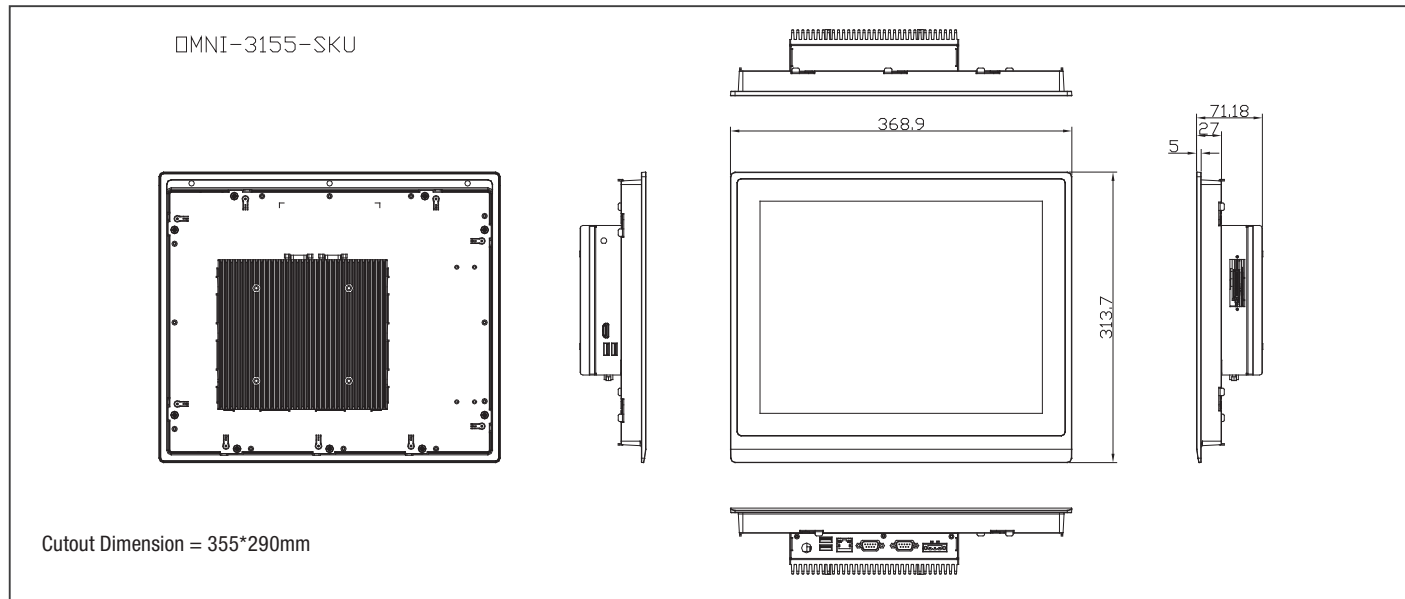


Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100/ Panel Mount
Dimension	14.53" x 12.36" x 2.79" (369mm x 314mm x 71 mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	14.3 lb (6.5 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m ²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3155HTT-SKU-A1-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-SKU-A2-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-SKU-A3-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
	OMNI-3155HTT-SKU-A4-1011	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-315DHTT-KIT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	5-wire Resistive	No
	OMNI-315DHTT-KIT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	-20°C~55°C with airflow	Projected capacitive	No
CPU BOX Kit	OMNI-SKU-KIT-A1-1010	—	—	—	—	Intel® i5-6300U, 2.4 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A2-1010	—	—	—	—	Intel® Celeron® 3955U, 2 GHz	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	VESA 100/ Panel mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A3-1010	—	—	—	—	Intel® i7-6600U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes
	OMNI-SKU-KIT-A4-1010	—	—	—	—	Intel® i3-6100U Processor	1	4	2	2.5" SATA HDD x 1	DDR4, up to 16GB	HDMI x 1	Mini-Card x 1 (Full Size)	Wall mount	DC 9~30V	-20°C~55°C with airflow	—	Yes

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3155-SKU

Optional Accessories

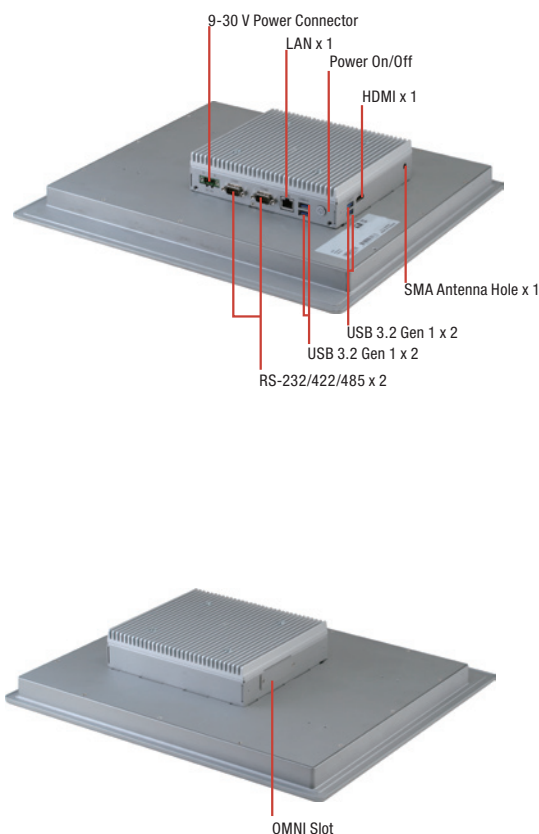
- AP-0T9789LA1000
LCD Monitor Stand 230mm, LA-100
- 1702031802
Power Cord (US Type)
- 1702031803
Power Cord (European Type)
- 170203180E
Power Cord (Japanese Type)
- 1255900849
12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

- 9741215501
Mini Card x 2, SIM x 2 Module
- 9741215502
Dual LAN Module
- 9741215506
DIO Module
- 9741215508
Audio Module
- 9741215510
HMS Kit (Europe Limitation)
- 9741215512
Wifi 802.11b/g/n Module
- 9741215513
RS-485/422/232 x 2 Module
- 9741215515
USB / COM / LAN Module
- 9741215516
RS-485/422/232 x 4 Module
- 9741215517
Isolation RS-485/422/232 x 4 Module
- 9741215518
RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- AP-DR968D4004G9
4GB Wide Temperature DRAM (-40°C ~ 85°C)
 - AP-DR968D4008GA
8GB Wide Temperature DRAM (-40°C ~ 85°C)
 - AP-DR968D4016G7
16GB Wide Temperature DRAM (-40°C ~ 85°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.



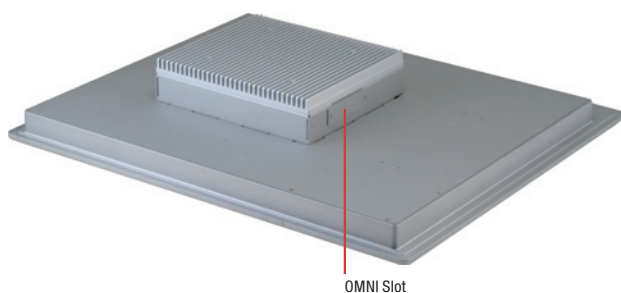
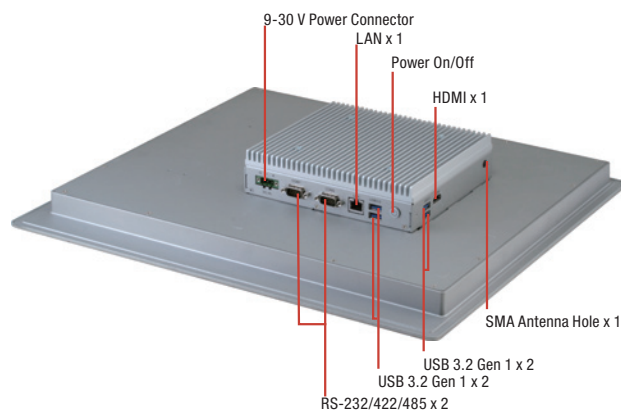
Features

- 17" (1280 x 1024) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules



Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000 Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	16.14" x 14.57" x 2.32" (410mm x 370mm x 59mm)
Carton Dimension	20.55" x 10.31" x 19.29" (522mm x 262mm x 490mm)
Gross Weight	16.28 lb (7.4 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m²
Viewing Angle	170 (H), 160 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)



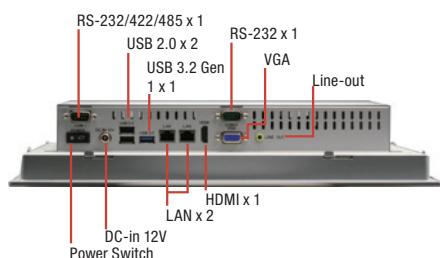
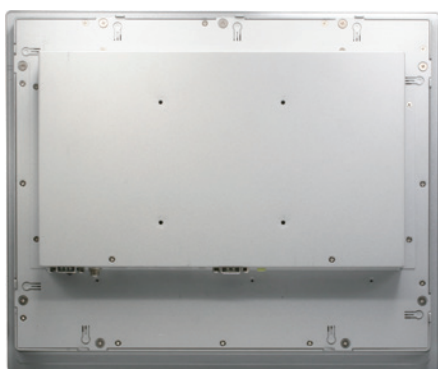
Features

- 19" (1280 x 1024) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules



Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron® 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 16 GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 1
I/O Port	USB 3.2 Gen 1 Type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 Type 10/100/1000Base-TX x 1 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off = N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 1 SIM card x 1 OMNI I/O connector x 1
OS support	Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	18.14" x 16.14" x 2.83" (460.8mm x 410mm x 72 mm)
Carton Dimension	26.02" x 8.11" x 19.53" (661mm x 206mm x 496mm)
Gross Weight	20.06 lb (9.1 kg)
Environmental	
Operating Temperature	-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	17" TFT-LCD, LED
Max Resolution	1280 (H) x 1024 (V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m²
Viewing Angle	170 (H), 160 (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)



Features

- 15" (1024 x 768) TFT LCD Display
- Intel® Celeron® Processor J1900 2.00 GHz
- Flat 5-Wire Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel
- Fanless Operation
- Internal Full-size Mini-Card x 1/ Half-size Mini-Card x 1 for Expansion

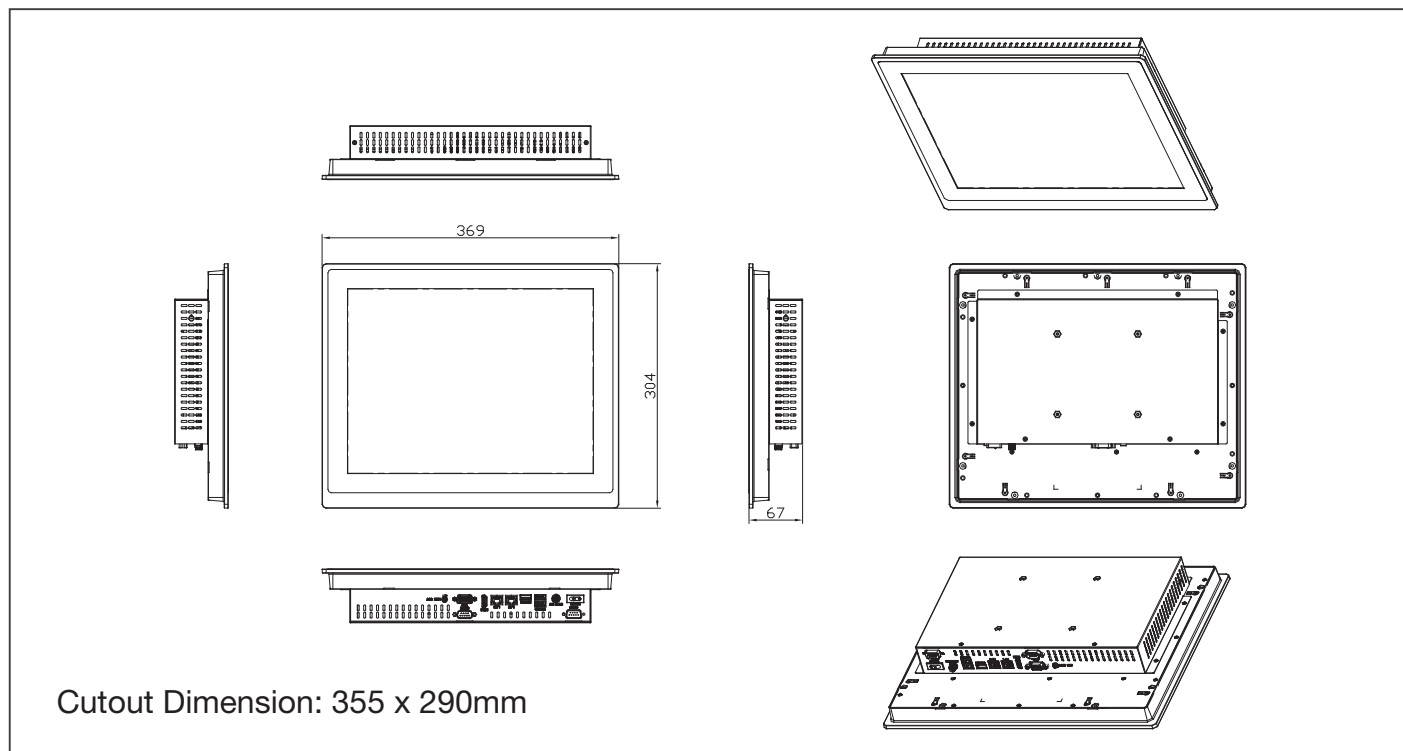


Specifications

System	
Processor	Intel® Celeron® J1900 Processor 2.00 GHz
System Memory	DDR3L 1333 MHz SODIMM x 2 up to 8 GB
LCD/CRT Controller	—
Ethernet	Realtek PCIe Gb LAN 8111G x 2
I/O Port	USB 2.0 Type A x 2 USB 3.2 Gen 1 Type A x 1 DB-9 Type RS-232/422/485 x 1 DB-9 Type RS-232 x 1 RJ-45 Type for 10/100/1000 Base-TX x 2 DB-15 x 1 for VGA HDMI x 1 Audio Jack x 1 for Line out DC Jack x1 for 12 Vdc power input
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Internal Full-size Mini-Card x 1 / Half-size Mini-Card x 1
OS Support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100x100 / Panel Mount
Dimension	14.53" x 12" x 2.63" (369mm x 304mm x 67mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	12.12 lb (5.5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1 Grms/ 5~500Hz/random operation
Shock	—
EMC	CE/FCC Class A
Power Supply	
DC input	12V DC in
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M color
Luminance	300 cd/m ²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	5-wire resistive
Light Transmission	80% ± 2%

Dimension

Unit: mm



Ordering Information

Part Number	Item	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF (Hours)	CPU	LAN	USB 2.0	USB 3.2 Gen 1	RS-232	RS-485/422/232	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch	OMNI I/O Module Support
OMNI-5155LHTT-BT-A1-1011	Panel PC	15" TFT-LCD	1024 x 768	300 cd/m ²	176°(H) 176°(V)	50,000	Intel® Celeron® J1900, 2 GHz	2	2	1	1	1	2.5" SATA-HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size / Half Size)	VESA 100/ Panel mount	DC 12V	-10°C~55°C with airflow	5-wire resistive	NO

Note: *RAM not included.

*This All-In-One Panel PC not support OMNI I/O modules.

Packing List

- VESA Screws
- Panel Mount Screws
- OMNI-5155L

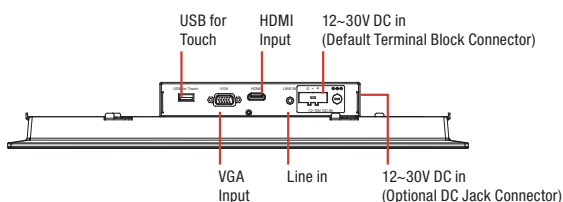
Optional Accessories

- **AP-0T9789LA1000**
LCD Monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **125530060Y**
12V 60W Lockable Power Adapter

OMNI Series : Modular Display Solutions

14





Features

- 15.6" WXGA (1366 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

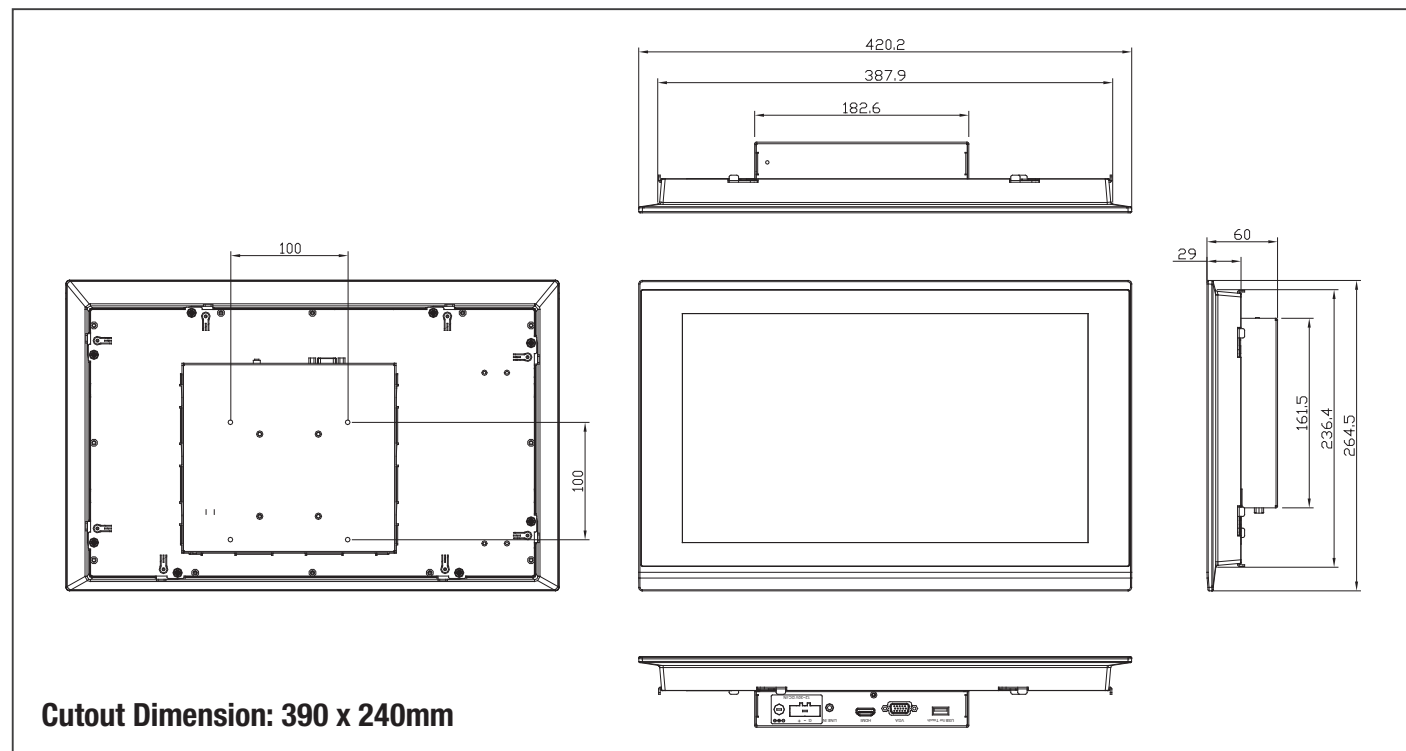


Specifications

System	
Input Signal	VGA/HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1 (Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100x100 / Stand
Dimension	16.5" x 10.4" x 2.4" (420.2mm x 264.5mm x 60.2mm)
Carton Dimension	20.9" x 17.5" x 7.9" (530mm x 445mm x 200mm)
Gross Weight	14.1 lbs (6.4 kg)
Net Weight	11.2 lbs (5.1 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	15.6" TFT-LCD
Max. Resolution	1366 x 768
Max. Colors	16.7M
Luminance	400 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

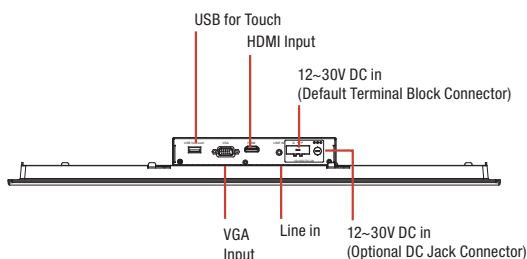
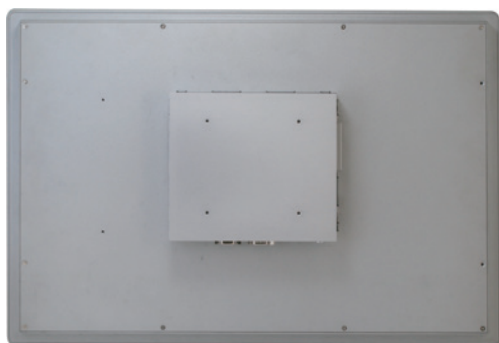
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-215MHTT-A1-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H), 140(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-215MHTT-A2-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H), 140(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-215M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 21.5" FHD (1920 x 1080) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

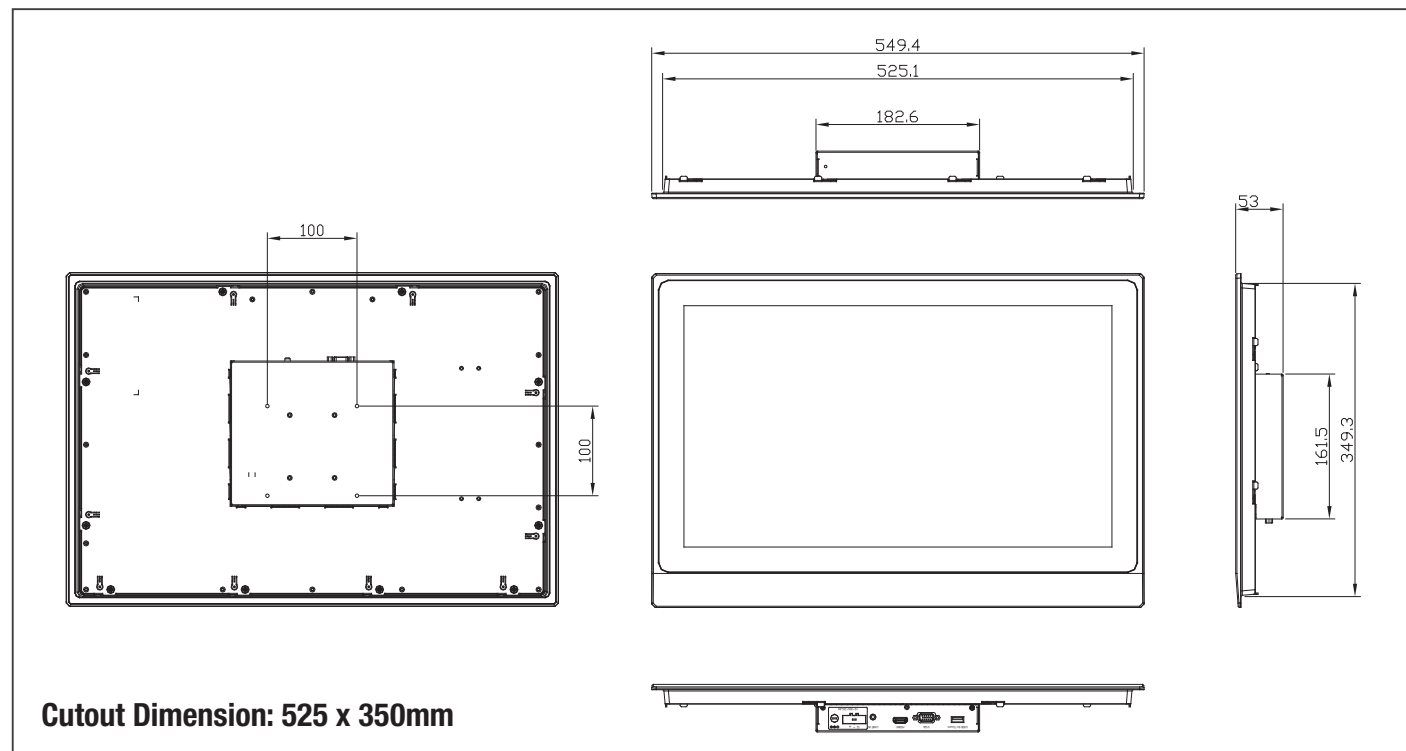


Specifications

System	
Input Signal	VGA/HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1 (Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	21.6" x 14.6" x 2.1" (549mm x 372mm x 53mm)
Carton Dimension	26.4" x 20.7" x 7.9" (670mm x 525mm x 200mm)
Gross Weight	18.5 lbs (8.4 kg)
Net Weight	15.4 lbs (7.0 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	21.5" TFT-LCD
Max. Resolution	1920 x 1080
Max. Colors	16.7M
Luminance	250 cd/m ²
Viewing Angle	178° (H), 178° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

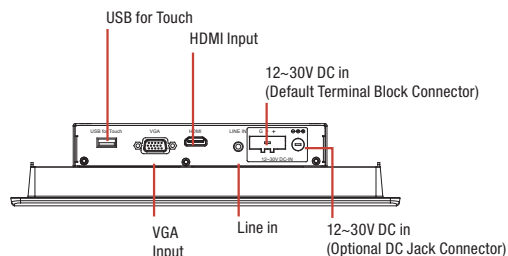
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-221MHTT-A1-1011	21.5" TFT-LCD	1920 x 1080	250 cd/m ²	178(H), 178(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-221MHTT-A2-1011	21.5" TFT-LCD	1920 x 1080	250 cd/m ²	178(H), 178(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-221M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 10.4" SVGA (800 x 600) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

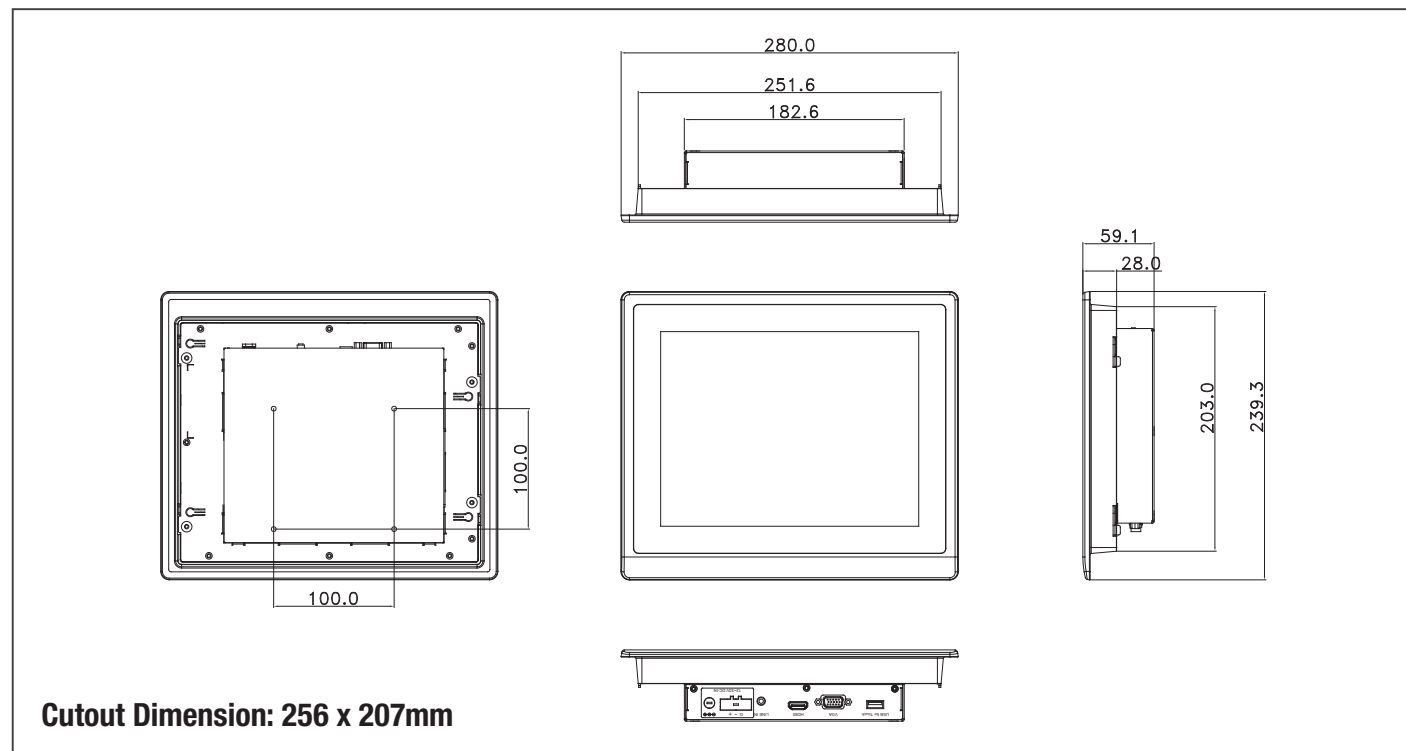


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1 (Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	11.0" x 9.4" x 2.33" (280mm x 239.3mm x 59.1mm)
Carton Dimension	16.3" x 15.4" x 7.04" (415mm x 391mm x 179mm)
Gross Weight	7.9 lbs (3.6 kg)
Net Weight	1.1 lbs (2.4 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	10.4" TFT-LCD
Max. Resolution	800 x 600
Max. Colors	16.2M
Luminance	230 cd/m ²
Viewing Angle	160° (H), 130° (V)
Back Light	LED
Back Light MTBF (Hours)	30,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

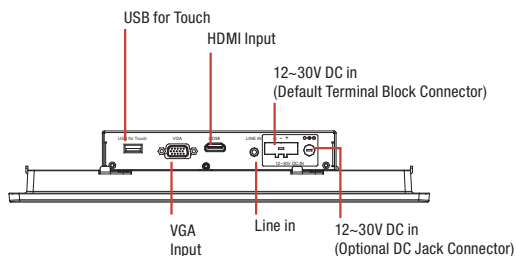
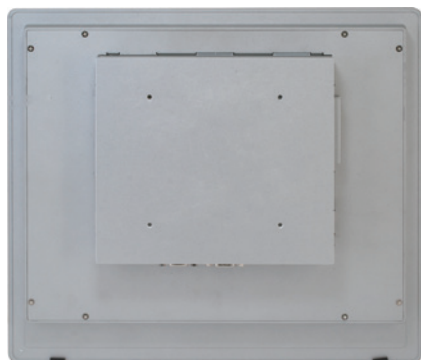
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-310MHTT-A1-1010	10.4" TFT-LCD	800 x 600	230 cd/m ²	120(H), 100(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-310MHTT-A2-1010	10.4" TFT-LCD	800 x 600	230 cd/m ²	120(H), 100(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-310M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 12.1" XGA (1024 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

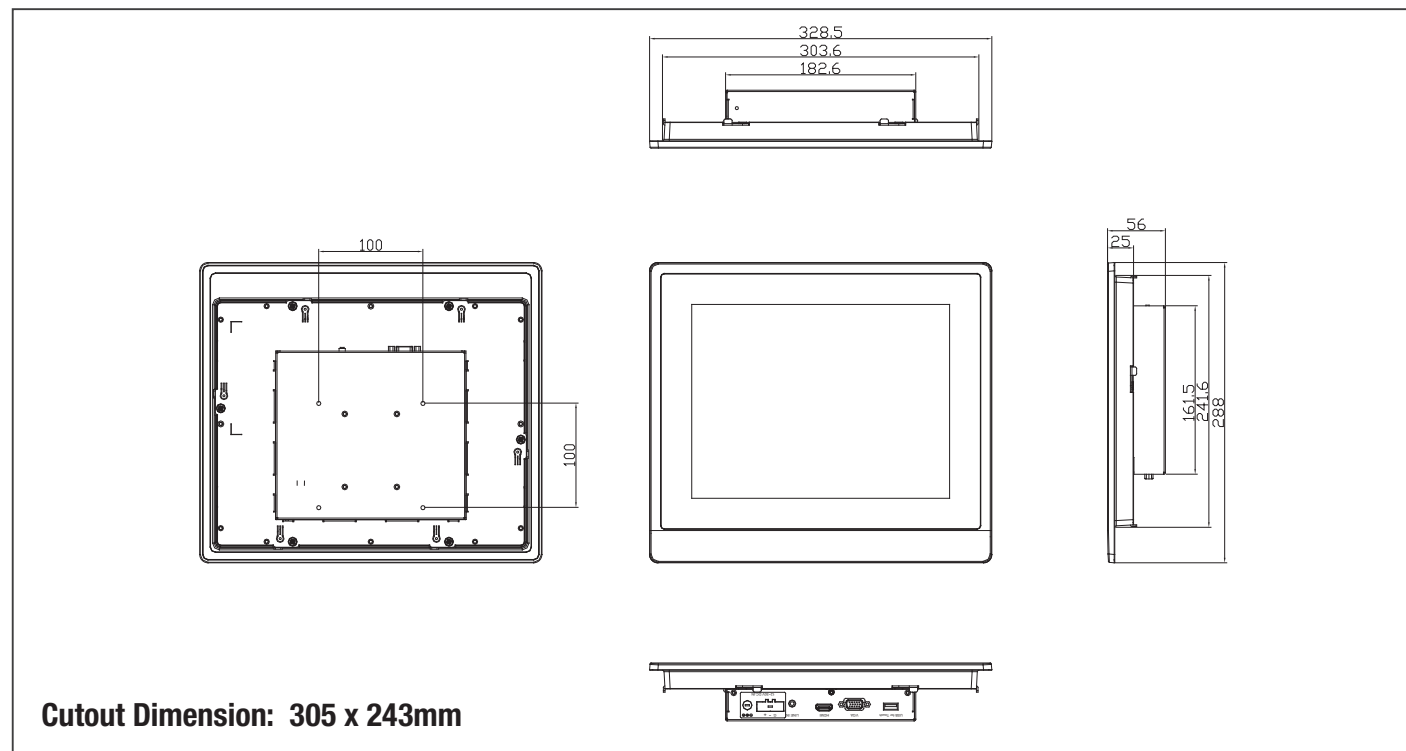


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	12.9" x 11.3" x 2.2" (328.5mm x 288.1mm x 55.9mm)
Carton Dimension	20.9" x 17.5" x 7.9" (530mm x 445mm x 200mm)
Gross Weight	10.4 lbs (4.7 kg)
Net Weight	7.7 lbs (3.5 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	12.1" TFT-LCD
Max. Resolution	1024 x 768
Max. Colors	16.2M
Luminance	500 cd/m ²
Viewing Angle	160° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

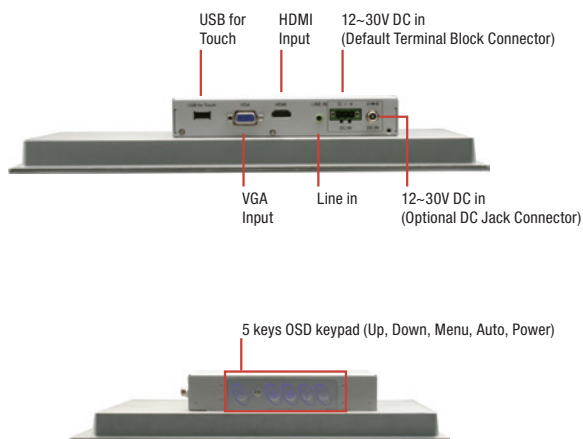
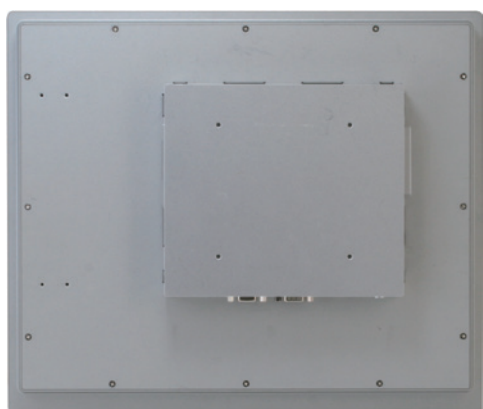
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-312MHTT-A1-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-312MHTT-A2-1010	12.1" TFT-LCD	1024 x 768	500 cd/m ²	160(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-312M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 15" XGA (1024 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

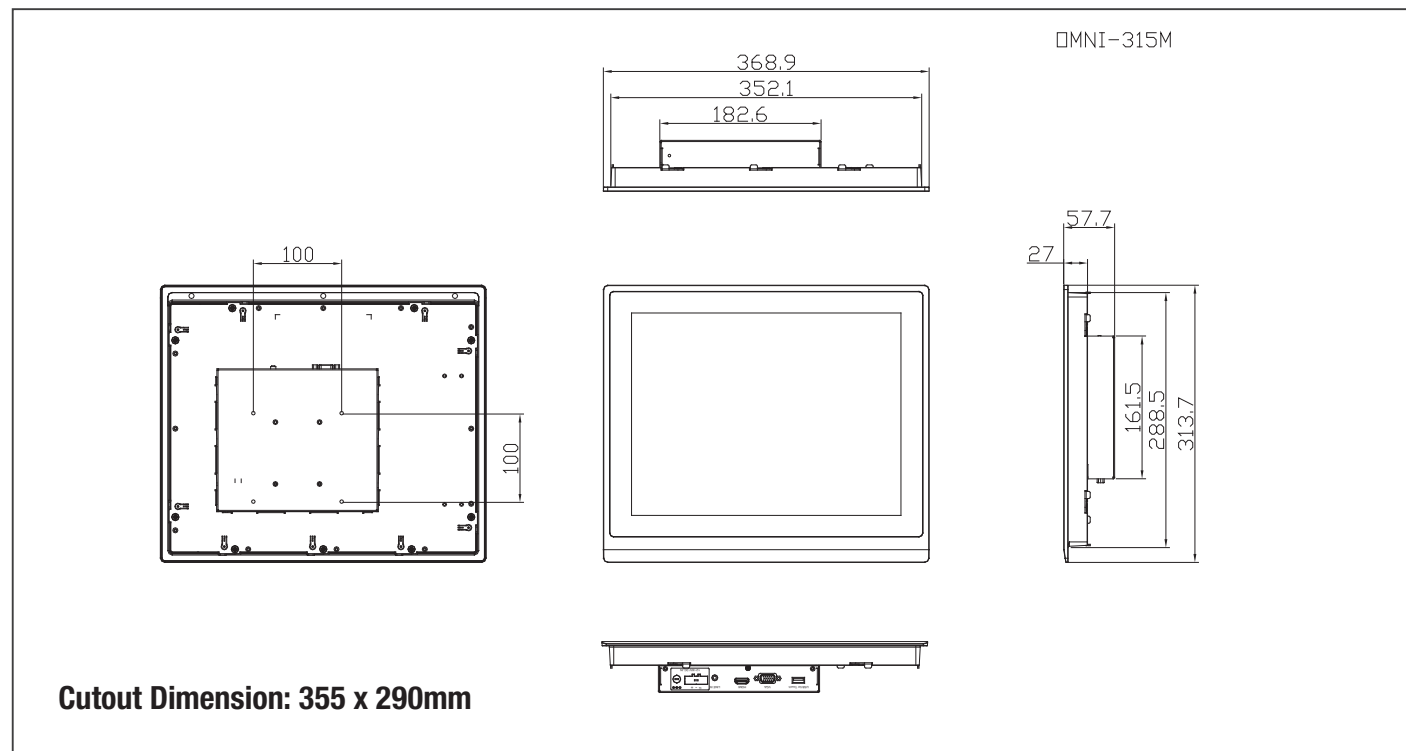


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	14.5" x 12.4" x 2.3" (369mm x 314mm x 58mm)
Carton Dimension	20.1" x 18.1" x 9.8" (510mm x 460mm x 250mm)
Gross Weight	14 lbs (6.35 kg)
Net Weight	11.2 lbs (5.1 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	15" TFT-LCD
Max. Resolution	1024 x 768
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m ²
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

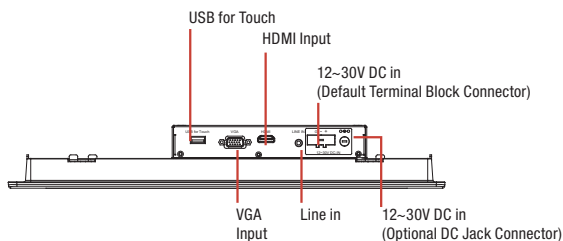
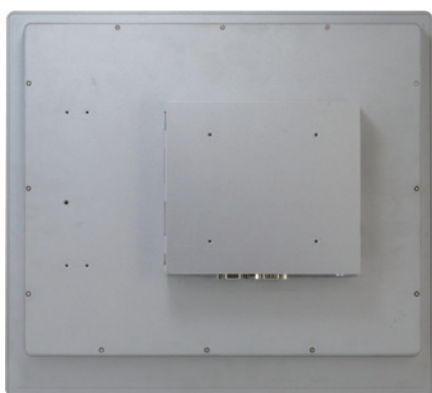
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-315MHTT-A1-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-315MHTT-A2-1011	15" TFT-LCD	1024 x 768	300 cd/m ²	176° (H), 176° (V)	70,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-315M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 17" XGA (1280 x 1024) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

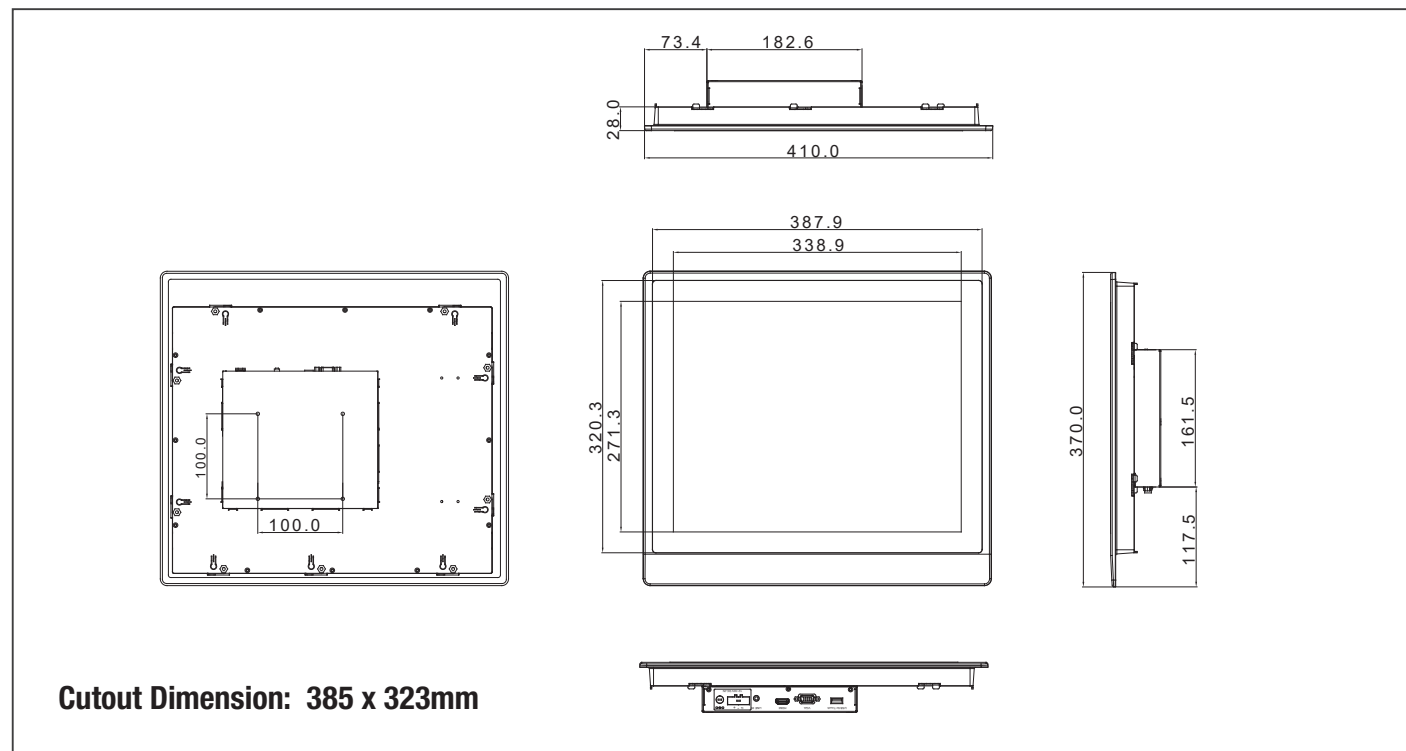


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	16.1" x 14.6" x 2.3" (410mm x 370mm x 59.1mm)
Carton Dimension	20.6" x 19.3" x 10.3" (522mm x 490mm x 262mm)
Gross Weight	14.8 lbs (6.7 kg)
Net Weight	11.7 lbs (5.3 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	17" TFT-LCD
Max. Resolution	1280 x 1024
Max. Colors	16.2M
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

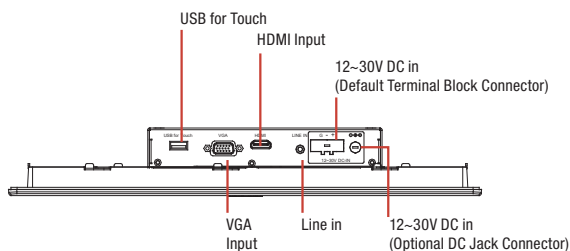
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-317MHTT-A1-1011	17" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-317MHTT-A2-1010	17" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-317M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 19" SXGA (1280 x 1024) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

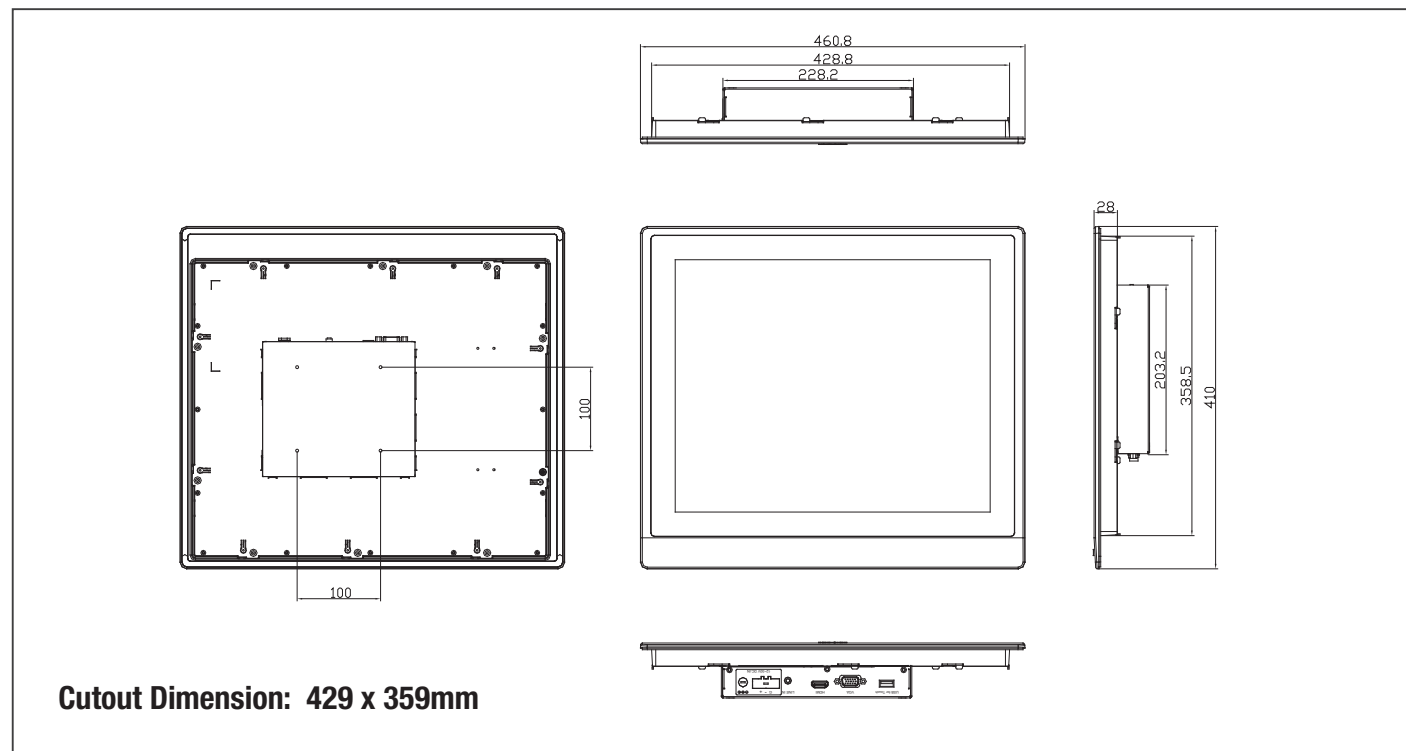


Specifications

System	
Input Signal	VGA / HDMI
On Screen Display Control	5 keys OSD keypad (Up, Down, Menu, Auto, Power)
I/O Port	DB-15 VGA x 1 HDMI x 1 USB x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1(Terminal Block 3pin)
Os Support	Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04
Mechanical	
Construction	IP65 aluminum front bezel & SGCC chassis
Mounting	Panel Mount / VESA 100 x 100 / Stand
Dimension	18.1" x 16.1" x 2.3" (460.8mm x 410mm x 59.1mm)
Carton Dimension	26.0" x 19.5" x 8.1 (661mm x 496mm x 206mm)
Gross Weight	18.1 lbs (8.2 kg)
Net Weight	15.2 lbs (6.9 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~90% @104°F (40°C); non-condensing
Vibration	1 Grms / 5~500Hz/random Operation
Shock	—
EMC	CE/FCC, Class A
Power Supply	
Dc Input	DC 12~30V Power Input with 3 Pin Terminal Block
LCD	
Display Type	19" TFT-LCD
Max. Resolution	1280 x 1024
Max. Colors	16.7M
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
Life Time	—

Dimension

Unit: mm



Ordering Information

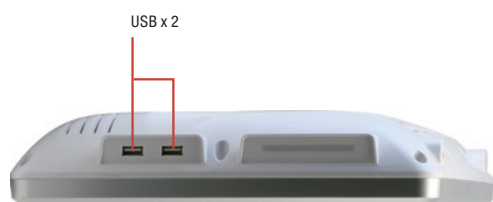
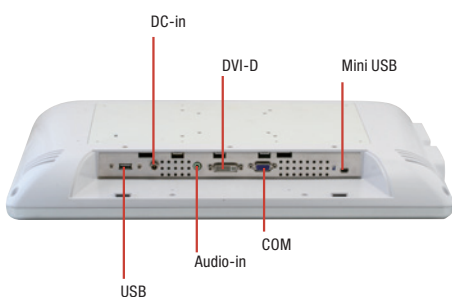
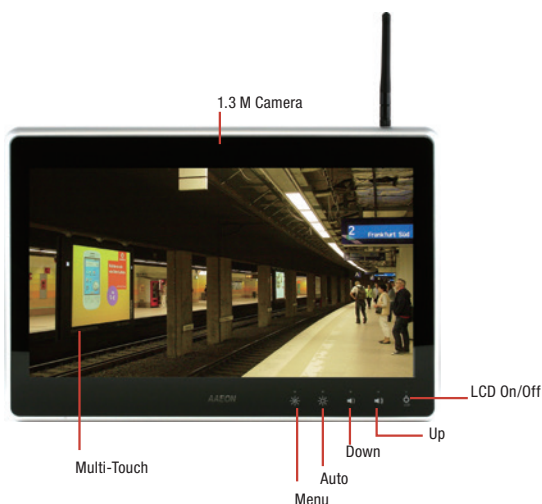
Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Others
OMNI-319MHTT-A1-1011	19" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Flat 5 Wire Resistive	—
OMNI-319MHTT-A2-1010	19" TFT-LCD	1280 x 1024	350 cd/m ²	170(H), 160(V)	50,000	VGA x 1 HDMI x 1	Panel mount VESA 100	DC 12V~30V	14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)	Projected Capacitive	—

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-319M

Optional Accessories

- **125530040F**
12V 40W FSP040-DHAN3
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **AP-OT9789LA1000**
LCD Monitor Stand 230mm, LA-100



Features

- 15.6" WXGA (1366 x 768) TFT LED type LCD
- Multi-Touch Window Design (2-Point)
- IP65 Front Bezel & IPX1 Back Chassis
- 7H Anti-Scratch Surface
- Fanless Operation
- Easy To Clean

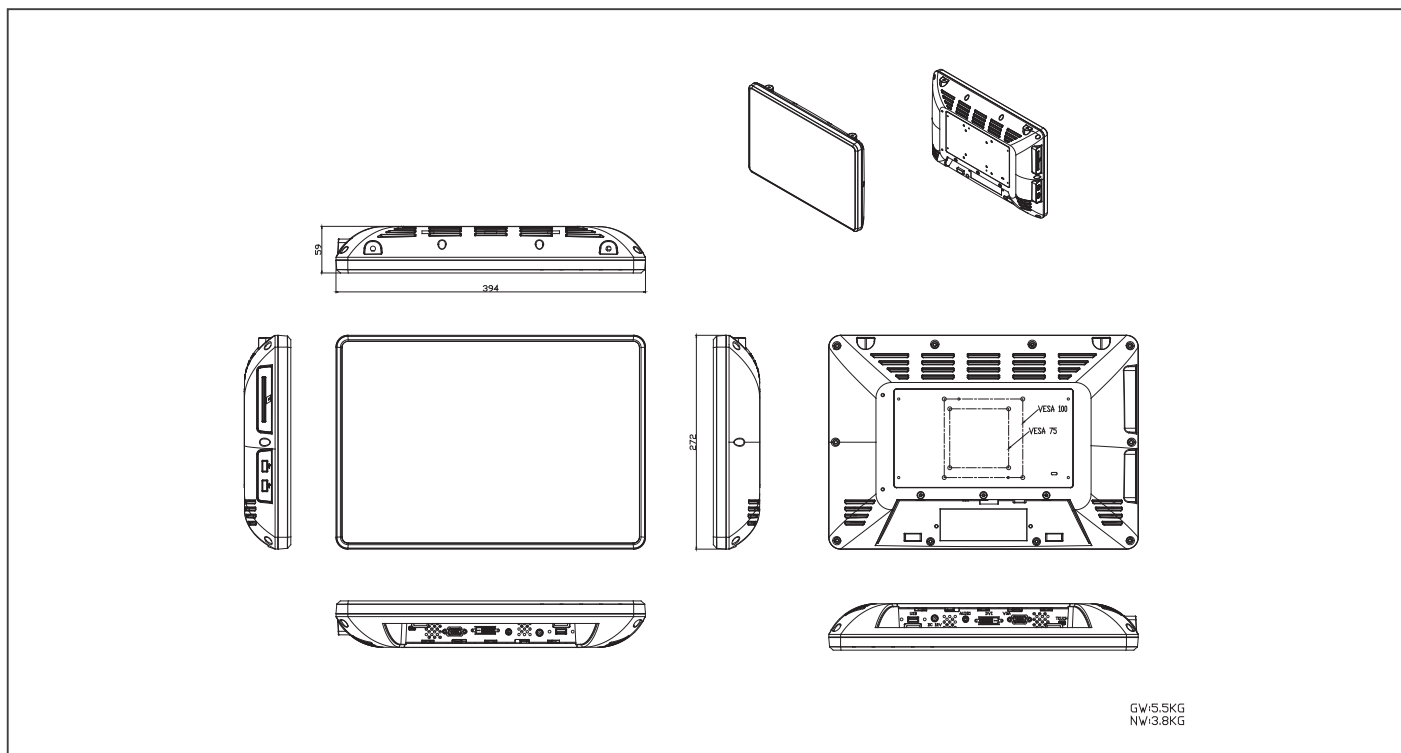


Specifications

System	
Input Signal	VGA/ DVI-D
On Screen Display Control	Auto, Menu, Up, Down, LCD On/Off
I/O Connector	USB x 3 (2 on side; 1 on rear), VGA/DVI x 1, Mini-USB x 1 (for T/S), Line-out x 1, 2W speaker x 2
OS Support	Windows® XP (T/S: single point), Linux Fedora (T/S: single point), Windows® 7 (T/S: multi-point)
Mechanical	
Construction	IP65/ NEMA4 for plastic front bezel, IPX1 for plastic chassis
Mounting	VESA 75/100
Dimension	15.51" x 10.71" x 2.32" (394mm x 272mm x 59mm)
Carton Dimension	20.47" x 18.5" x 9.06" (520mm x 470mm x 230mm)
Gross Weight	11.02 lb (5 kg)
Net Weight	6.6 lb (3 kg)
Environmental	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10~95% @ 40°C, non-condensing
Vibration	1 Grms/ 5~500Hz/ random operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC Input	DC 12V, with lockable power adapter
LCD	
Display Type	15.6" TFT-LCD, LED type
Max. Resolution	1366 x 768
Max. Colors	16.7M colors (6/8-bit for R,G,B)
Luminance	400 cd/m ²
Viewing Angle	160° (H)/140° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	Projected capacitive multi-touch (2-point)
Light Transmission	90%

Dimension

Unit: mm



Ordering Information

Part Number	Display Type	Max. Resolution	Luminance	View Angle	Backlight MTBF (Hours)	Display	Mounting	Power	Temp.	Touch	Other
TF-ACD-515DHTT-A2-1013	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160°(H), 140°(V)	50,000	VGA x 1 DVI x 1	VESA 75/100/Wall	DC 12V	0°C ~ 40°C (w/o air)	Projected Capacitive multi-touch (2-point)	—

Packing List

- VGA Cable
- USB Cable
- Audio Plug Cable
- AC/DC 12V Power Adapter with Lock
- ACD-515D

Optional Accessories

- **1700151806**
VGA Cable, 180cm
- **1709051000**
Mini-USB to USB type A for Touch Screen
- **1700091800**
DB-9, 180cm, RS-232 For Touch Screen
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **ARM-WK075-0**
Wallmount kit

Network Appliances

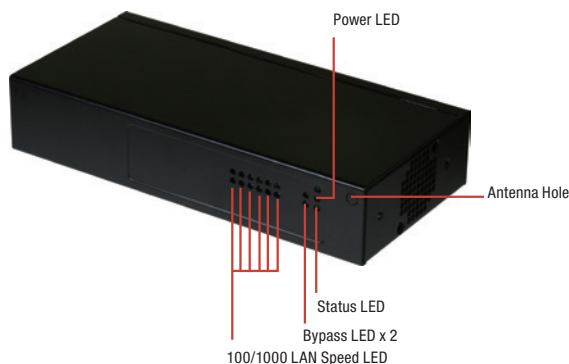
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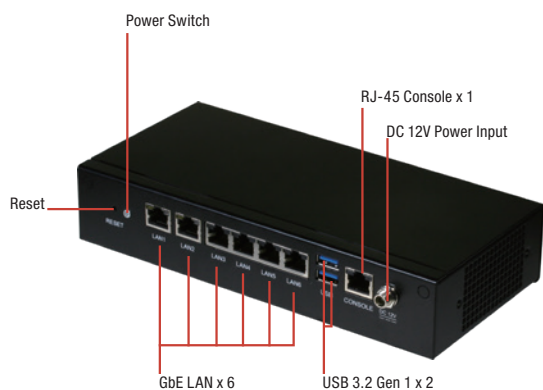
FWS-2360

Desktop Network Appliance with Intel® Atom® Processor C3000 Series

Front View



Rear View



Features

- Desktop Network Appliance
- Intel® Atom® C3000 Series Processor Supports Dual and Quad Core
- DDR4 SODIMM/ ECC DIMM (Dual Core 1 Slot Quad Core 2 Slot)
- 4 Copper(88E1543) + 2 Copper(I211), optional 4 Copper(88E1543) + 2 Fiber(I210)
- 2 Pairs Bypass Support
- Mini PCIe with SIM Slot Support
- Internal 2.5" SATA HDD Bay x 1 (Optional)
- eMMC Support up to 16GB
- RJ-45 Console x 1
- USB 3.2 Gen 1 x 2 (Internal USB 2.0 x 1)



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	Mini-Card socket (full-size) x 2 (1 with SIM socket)
Keyboard and Mouse	Reserved pin-header
USB	Dual Core: USB 3.2 Gen 1 x 1 + USB2.0 x 1

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	—
TPM	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	(4 bits input, 4bits output optional)
Fan	System fan x 1
MTBF (Hours)	149683 Hours
Color	Black

Environmental Parameters and Dimension

Power Requirement	12V DC Power in connector
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (2.5" HDD) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	8.66" x 4.13" x 1.73" (220mm x 105mm x 44mm)

I/O

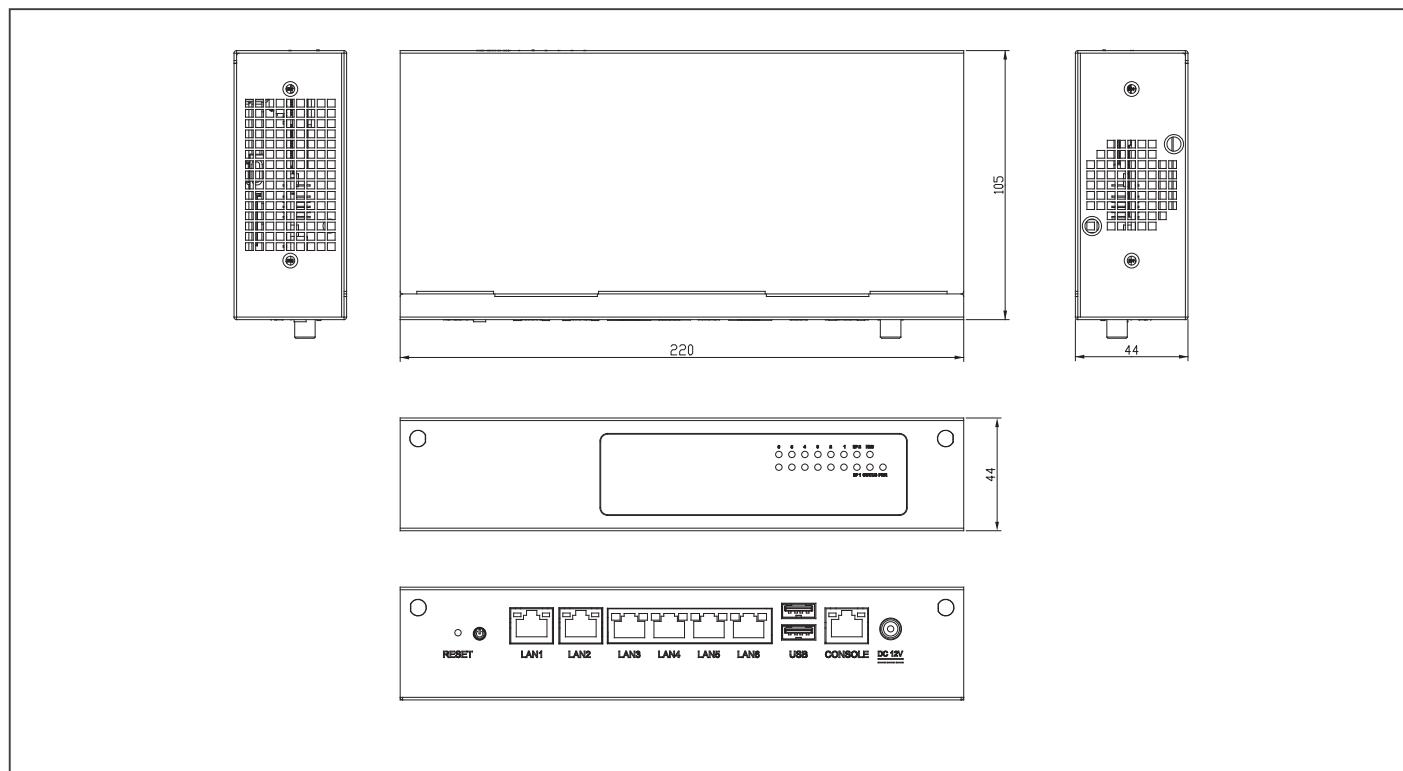
Front Panel	Power LED x 1, Status LED x 1, Storage Active LED x 1, Bypass LED x 2, LAN LED x 12
Rear Panel	USB 3.2 Gen 1 Port x 2, RJ-45 Port x 6 (Optional RJ-45 x 4 + SFP x 2) RJ-45 Console x 1, 12V DC Power Input x 1, Software Reset Button x 1, Power Button x 1, (Antenna Hole x 4 Optional)

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Atom™ Processor C3000 Series supports dual and quad core
Chipset	SoC
System Memory	DDR4 SODIMM ECC DIMM (Dual core 1 slot Quad core 2 Slot) Up to 32GB
Network	
Ethernet	Intel® X553 (Marvell 88E1543) RJ45 x 4 Default Intel® i211 GbE x 2 (Intel® i210 SFP x 2 Optional)
Bypass	Supports up to 2 pairs bypass function
Display	
Graphic Controller	—
Connector	—
Storage	
HDD	2.5" HDD Bay x 1
CF/CFast/MSATA	SATA 6.0 Gb/s port x 1(Onboard eMMC up to 16GB optional)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2360E6-A10-00	Intel® Atom® C3558	260-pin DDR4 SODIMM/ ECC socket x 2	2 pairs	Full Size x 2 (PCIe + USB), 1 with SIM socket	2.5" HDD Bay x 1	6 Intel® X553 (Marvell 88E1543) RJ45 x 4 Default Intel® i211 GbE x 2	USB 3.2 Gen 1 x 2	RJ-45 console x 1	1	—	—	Desktop	DC

Packing List

- Power Adapter
- SATA Cable
- SATA Power Cable
- FWS-2360

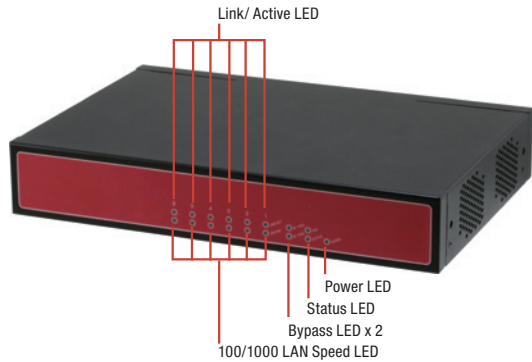
Optional Accessories

- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP12/YC-12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP12/YC-12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12
- **1700091805**
Console Cable

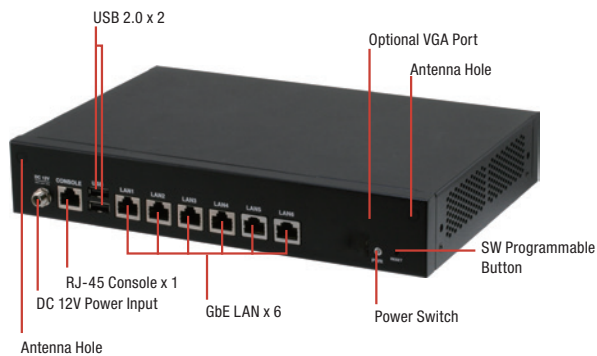
FWS-2350

Desktop 6 LAN Ports Network Appliance with Intel® Atom™ C2558/C2358 Processor SoC with Intel® QAT Support

Front View



Rear View



Features

- Onboard Intel® Atom™ C2358/C2558 Processor SoC
- 240-pin DDR3 DIMM up to 16 GB ECC or non-ECC SDRAM
- Built-in Gigabit Ethernet x 6
- Supports QuickAssist Crypto Acceleration
- System Cooling Fan x 1
- Supports 2 Pairs LAN Bypass Function
- Compact Desktop Design
- Built-in Intel® i211AT LAN and Intel® SoC Integrated i354 with Marvell 88E1543 PHY



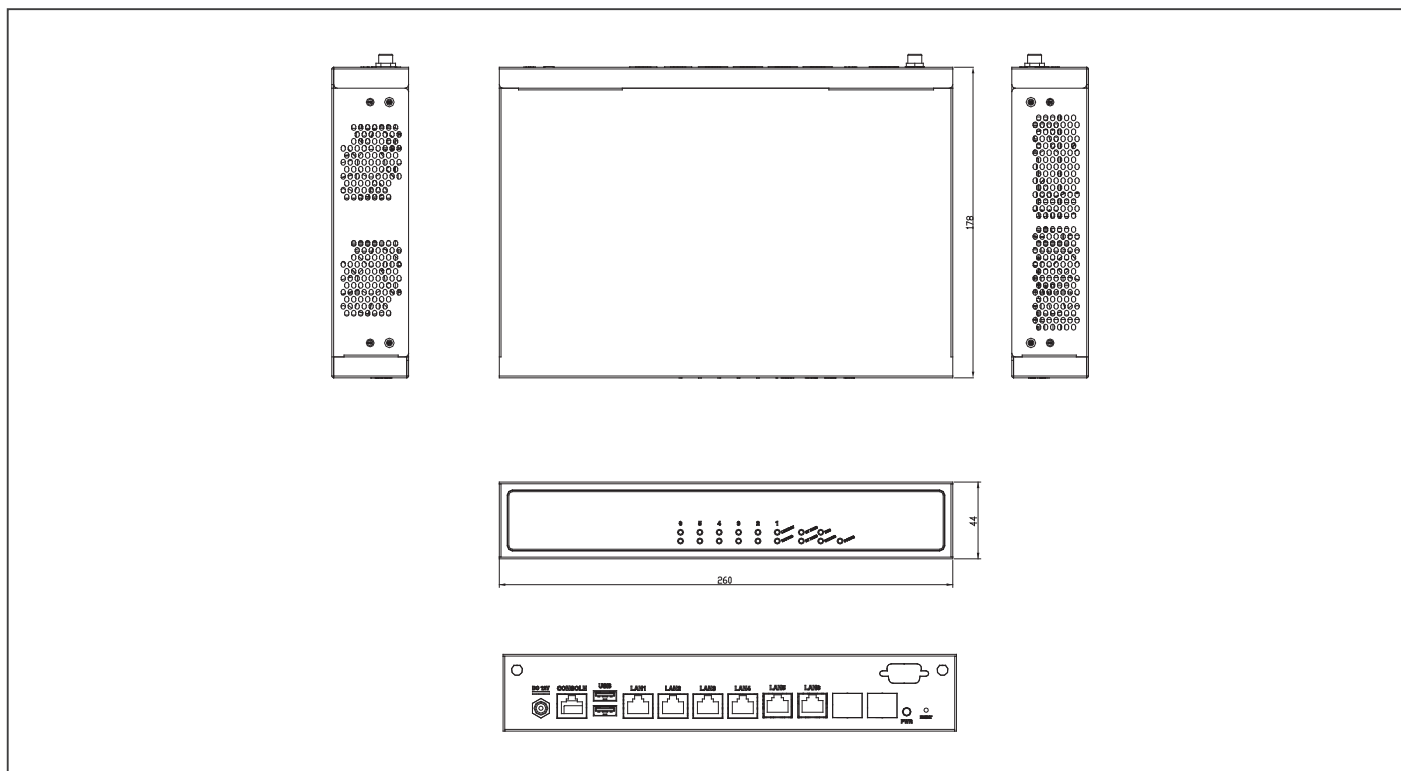
Storage	
HDDs	Internal 2.5" SATA HDD Bay x 1
CF/CFast/mSATA	CF socket x 1 (Optional CFast™ socket x 1)
Internal/ Expansion Interface	
PCIe slot	—
Mini-PCIe slot	Mini-Card slot with SIM socket x 1 (Full size) (Optional Mini-Card slot up to 2)
Keyboard and Mouse	Pin-header
USB	USB 2.0 x 2
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	Optional TPM v1.2/v2.0
GPIO	Reserved internal GPIO Pin header x 1
FAN	System Fan x 1
MTBF (Hours)	86,286
Color	Black
Environmental Parameters and Dimension	
Power Requirement	12V DC power in connector/ 60W Power adapter x 1 4-pin DC power out connector for HDD x 1
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non-operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	10.24" x 7.01" x 1.73" (260mm x 178mm x 44mm)
I/O	
Front Panel	- Power LED x 1 - Status LED x 1 - HDD Active LED x 1 - Bypass LED x 2 (Optional) - LAN LED x 12 (Supports up to LAN LED x 16)
Rear Panel	- 12V DC Power Input x 1 - Power Button x 1 - USB 2.0 x 2 - RJ-45 LAN x 6 (Supports up to RJ-45 LAN x 8) - RJ-45 Console x 1 - Software Programmable Button x 1

Specifications

System	
Form Factor	Desktop 6-Port Network Appliance
Processor	Intel® Atom™ C2358 1.7 GHz (Dual Core) Intel® Atom™ C2558 2.4 GHz (Quad Core)
Chipset	—
System Memory	240-pin DDR3 1333MHz ECC or non-ECC SDDIMM up to 16GB, C2358 single channel, C2558 dual-channel
Network	
Ethernet	Intel® i211, Gigabit Ethernet x 2 (Optional additional Intel® i211, Gigabit Ethernet x 2), Intel® SoC Integrated i354 with Marvell 88E1543 PHY x 1
Bypass	Supports up to 2 pairs bypass function
Display	
Graphic Controller	—
Connector	—

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	System Fan	Bypass	Mini-Card Socket	Storage	Display	LAN	USB	Console	Mounting	Power
FWS-2350E6-A10-A11-00	Intel® Atom™ C2358	Single channel, DDR3 DIMM x 1	1	2 pairs	1	2.5" HDD Bay x 1 CompactFlash™ Socket x 1	—	GbE x 6	USB 2.0 x 2	RJ-45 x 1	Desktop	DC
FWS-2350E6-A10-A11-01	Intel® Atom™ C2558	Dual channel, DDR3 DIMM x 2	1	2 pairs	1	2.5" HDD Bay x 1 CompactFlash™ Socket x 1	—	GbE x 6	USB 2.0 x 2	RJ-45 x 1	Desktop	DC

Packing List

- Power Adapter
- Console Cable
- SATA Cable
- SATA Power Cable
- FWS-2350

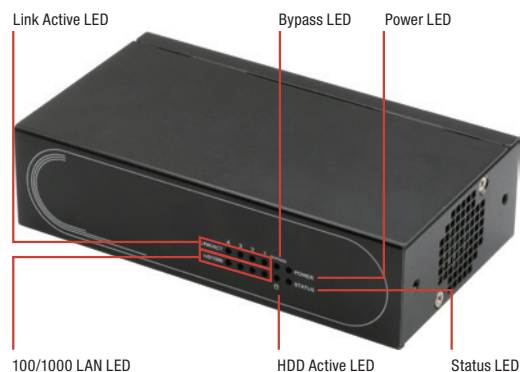
Optional Accessories

- **9761220030**
Ear Bracket kit
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP12/YC-12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP12/YC-12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12
- **9761EMPV00**
VGA Module Kit

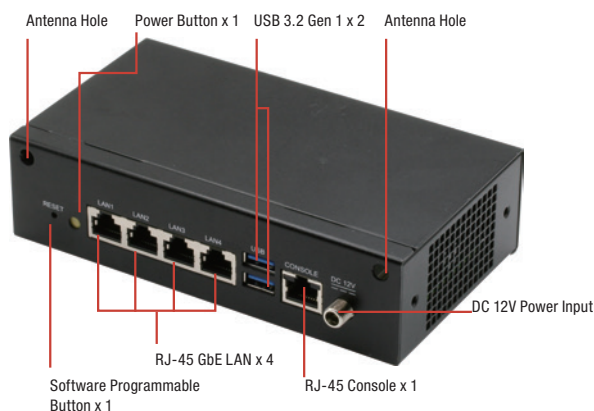
FWS-2276

Desktop 4 LAN Ports Network Appliance with Intel® Celeron® Processor N3350

Front View



Rear View



Features

- Desktop Network Appliance
- Intel® Celeron® Processor N3350
- Onboard LPDDR4 2 GB Memory
- Gigabit Ethernet x 4 (Intel® i211)
- 1 Pair Bypass
- Internal 2.5" SATA HDD Bay x 1
- Onboard 8 GB eMMC
- RJ-45 Console x 1
- USB 3.2 Gen 1 x 2



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	—
Keyboard and Mouse	—
USB	USB 3.2 Gen 1 x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	—
TPM	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	4 bits input, 4bits output optional
Fan	1
MTBF (Hours)	166,000
Color	Black

Environmental Parameters and Dimension

Power Requirement	12V DC Power
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (2.5" HDD) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	6.5" x 3.62" x 1.57" (165mm x 92mm x 40mm)

I/O

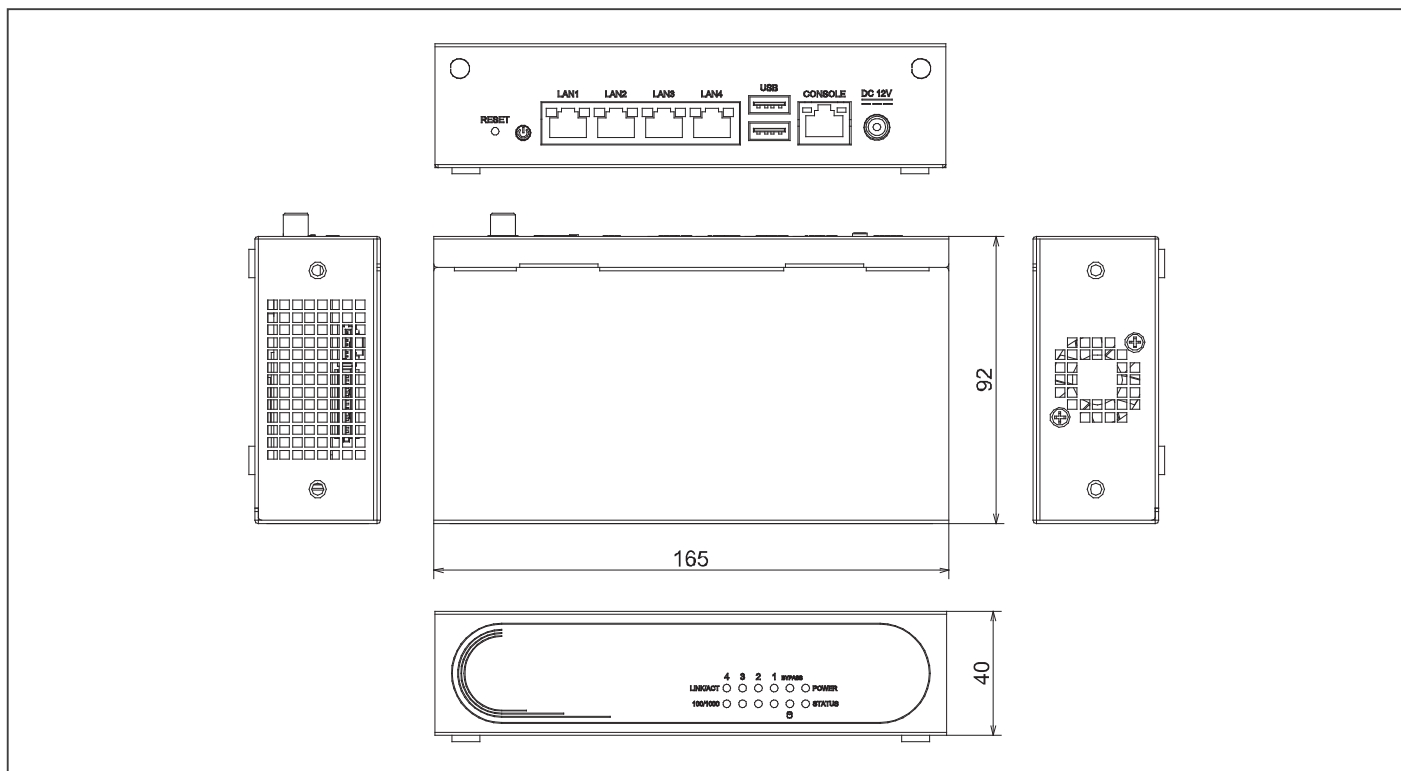
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 Bypass LED x 1 LAN LEDs x 8
Rear Panel	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 4 RJ-45 Console x 1 12V DC Power Input x 1 Software Programmable Button x 1 Antenna Hole x 2 Optional

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Celeron® Processor N3350 SoC
Chipset	SoC
System Memory	Onboard LPDDR4 2GB memory
Network	
Ethernet	Intel® i211 GbE x 4
Bypass	1 pair bypass function
Display	
Graphic Controller	Intel® HD graphics integrated
Connector	—
Storage	
HDD	2.5" HDD Bay x 1
CF/CFast/MSATA	Onboard 8GB eMMC, SATA 6.0 Gb/s port x 1

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	Display	LAN	USB	Console	Bypass	TPM	Fan	Mounting	Power	Note
FWS-2276E4-A10-A10-000	Intel® Celeron® N3350	Onboard LPDDR4 2GB memory	—	2.5" HDD Bay x 1 Onboard 8GB eMMC	—	Intel® i211 GbE x 4	USB 3.2 Gen 1 x 2	RJ-45 console x 1	1 pairs	—	1	Desktop	DC	* Please contact AAEON for other optional specifications.

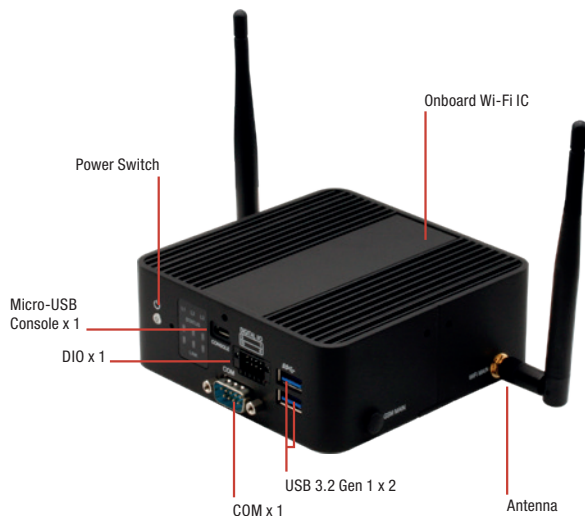
Packing List

- SATA Cable x 1
- SATA Power Cable x 1
- Power Adapter
- FWS-2276

Optional Accessories

- **1700091805**
Console Cable
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-250V/10A, 180D, 1.8M, PSE, YP12/YC-12

Front View



Rear View



Features

- Desktop Network Appliance
- Intel® Celeron® Processor N3350 SoC
- Onboard eMMC 16GB (Optional up to 32GB)
- Onboard LPDDR4, 2GB
- Intel® i211 GbE x 3
- 1 x Mini-Card Full Size Slot with SIM Socket (Optional)
- Onboard WiFi 802.11 b/g/n 2x2, BT4.1
- HDMI Connector (Optional)
- TPM Supported (Optional)



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	Mini-Card Full Size Slot with SIM Socket x 1
Keyboard and Mouse	—
USB	USB 3.2 Gen 1 x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	—
TPM	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	4 bits input, 4bits output
Fan	—
MTBF (Hours)	TBD
Color	Black

Environmental Parameters and Dimension

Power Requirement	9~24 V DC Power
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	45.3" x 45.3" x 17.3 " (115mm x 115mm x 44mm)

I/O

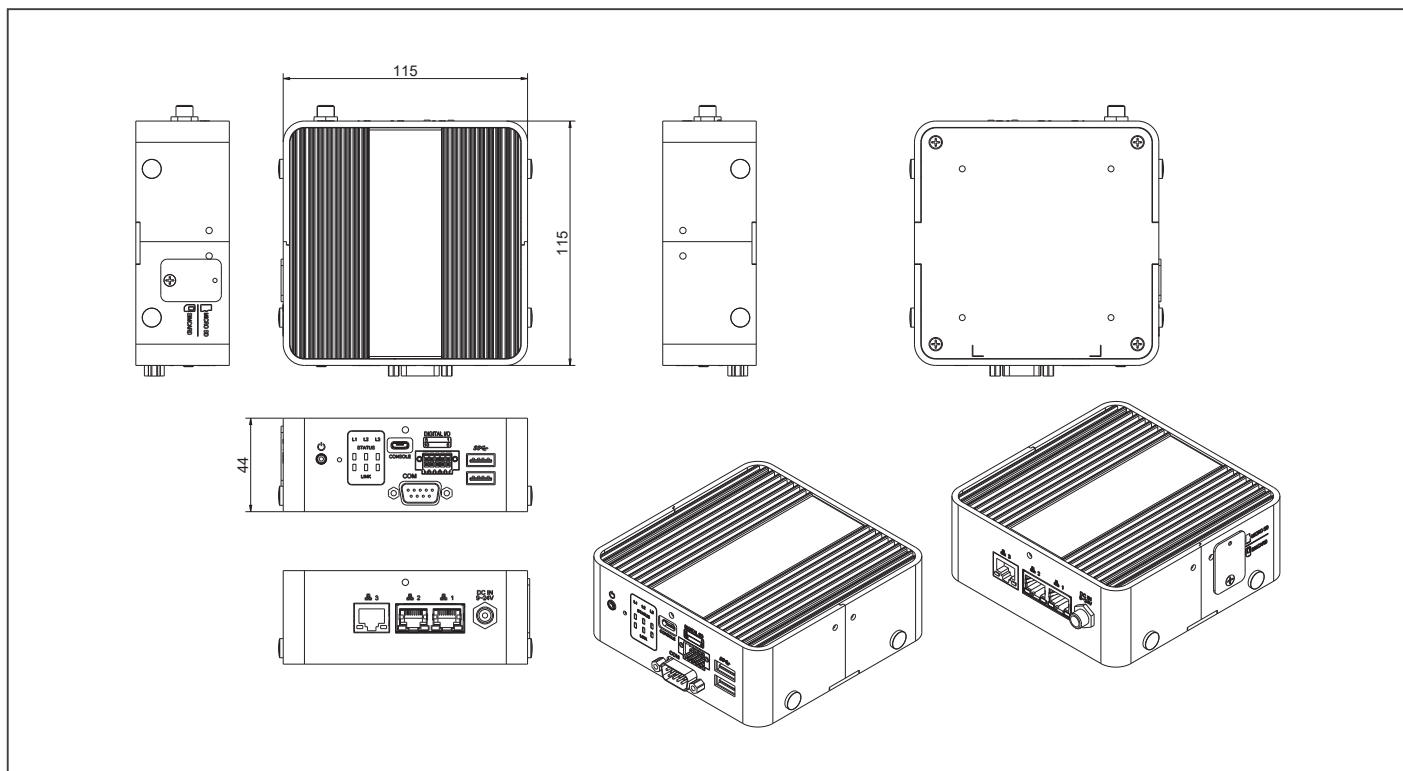
Front Panel	USB 3.2 Gen 1 Ports x 2 LED's (3 x TOP Row, 2 x Bottom Row)x 6 Power Button with LED integrated x 1 Micro-USB Console Port x 1 RS-232/422/485 x 1 GPIO 8 bits, 4-bits input, 4-bits output Reset button x 1
Rear Panel	1GbE RJ45 Ports x 3 Power Input connector, lockable x 1
Left I/O	SIM Slot x 1 + Micro-SD Slot with Cover x 1 WiFi Antenna Connector x 1 LTE Antenna Connector
Right I/O	WiFi Antenna Connector x 1 LTE Antenna Connector

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Celeron® Processor N3350 SoC
Chipset	SoC
System Memory	Onboard LPDDR4, 2GB
Network	
Ethernet	Intel® i211 GbE x 3
Bypass	—
Display	
Graphic Controller	Intel® HD graphics integrated
Connector	HDMI Connector (Optional)
Storage	
HDD	—
CF/CFast/mSATA	Onboard eMMC 16GB (Optional up to 32GB)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	Display	LAN	USB	Console	Bypass	TPM	Fan	Mounting	Power	Note
FWS-2275E3-A10-00	Intel® Celeron® N3350	Onboard LPDDR4 2GB memory	—	16GB eMMC	—	Intel® i211 x 3	USB 3.2 Gen 1 x 2	Micro USB console x 1	—	—	—	Desktop	DC	* Please contact AAEON for other optional specifications.

Packing List

- Antenna x 2
- Power Adapter x 1
- VESA mount x 1
- FWS-2275

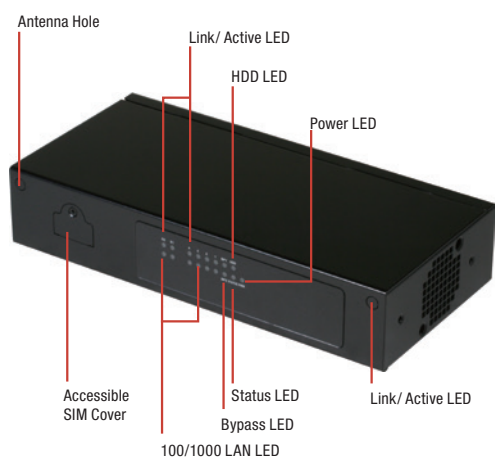
Optional Accessories

- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-250V/10A, 180D, 1.8M, PSE, YP12/YC-12

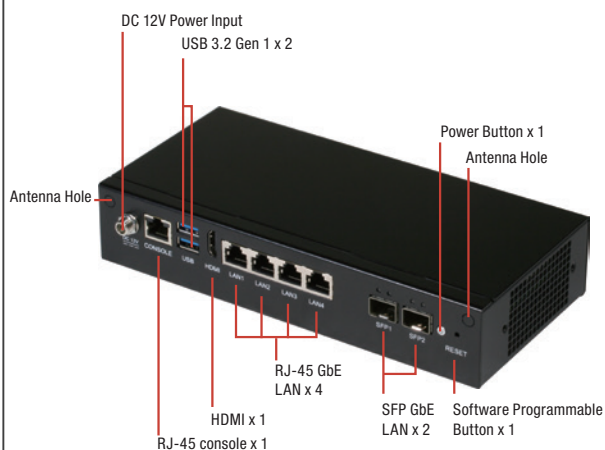
FWS-2273

Desktop 6 LAN Ports Network Appliance with Intel® Celeron® N3350 Processor SoC

Front View



Rear View



Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Celeron® N3350 Processor
Chipset	Intel® Celeron® N3350 Processor
System Memory	204-pin DDR3L SODIMM x 1, up to 8GB
Network	
Ethernet	Intel® i211, Gigabit Ethernet x 4 Intel® i210, SFP x 2
Bypass	Supports up to 2 pairs bypass function
Display	
Graphic Controller	Intel® HD Graphics 505 Intergrated
Connector	HDMI x 1
Storage	
HDD	2.5" HDD Bay x 1
CF/CFast/MSATA	CompactFlash™ socket x 1 (Co-lay for BOM Optional CFast™ socket x 1) SATA 6.0 Gb/s port x 1

Features

- Intel® Celeron® N3350 Processor SoC
- 10/100/1000Base-TX x 6 (4 x RJ-45, 2 x SFP connector)
- Supports up to 2 Pair Bypass
- CF Socket x 1, SATA 6.0 Gb/s Port x 1 for 2.5" HDD/SSD
- Mini-Card Slot (with SIM Socket) x 2
- RJ-45 Console x 1, USB 3.2 Gen 1 x 2



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	Mini-Card socket (full-size) with SIM socket x 2
Keyboard and Mouse	Reserved pin-header
USB	USB 3.2 Gen 1 x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	—
TPM	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	Reserved internal pin-header 8-bit Digital I/O interface (4-in /4-out)
Fan	Fanless, reserved pin-header for system fan
MTBF (Hours)	109,725
Color	Black

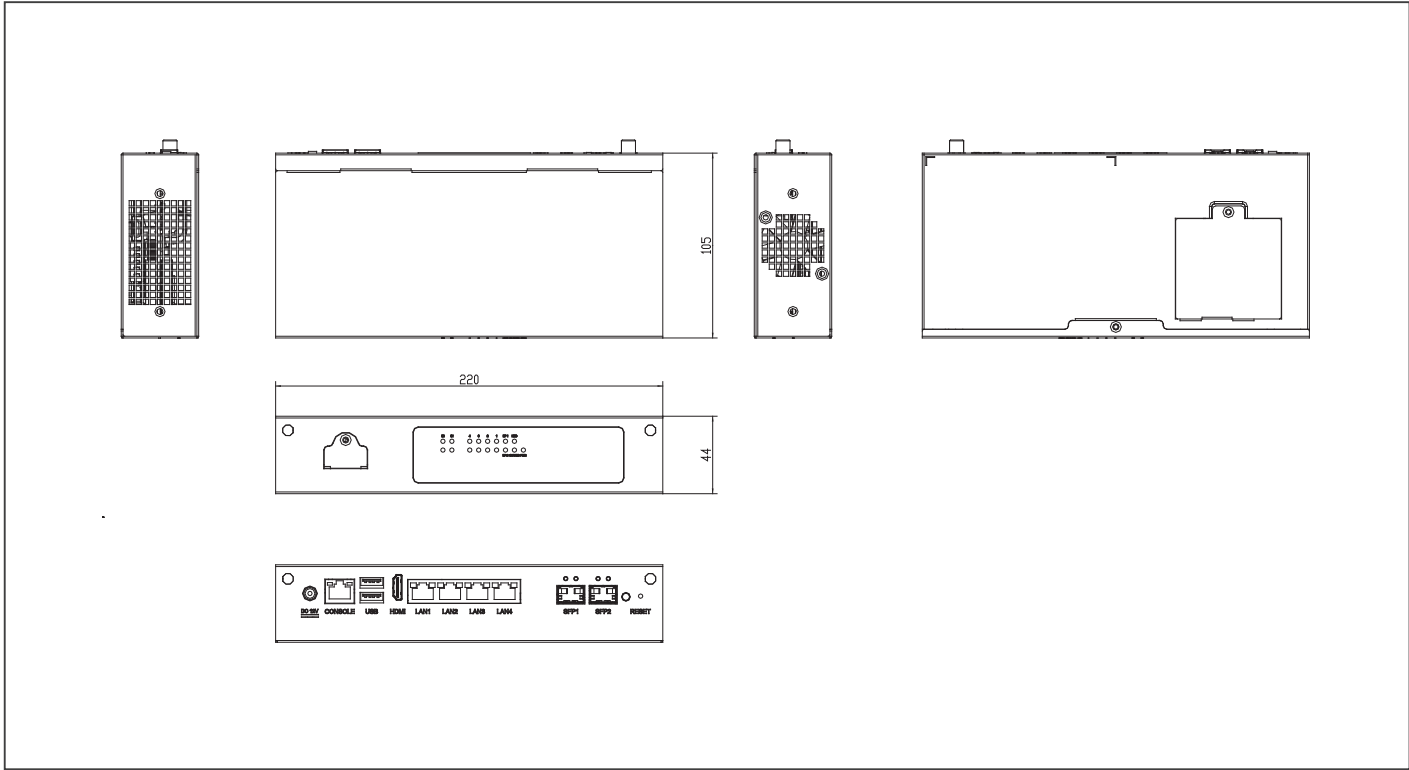
Environmental Parameters and Dimension

Power Requirement	12V DC Power in connector
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (2.5" HDD) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W x D x H)	8.66" x 4.13" x 1.73" (220mm x 105mm x 44mm)

I/O

Front Panel	Power LED x 1 Status LED x 1 Storage Active LED x 1 Bypass LED x 2 LAN LED x 12
Rear Panel	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 4 SFP x 2 RJ-45 Console x 1 12V DC Power Input x 1 Software Reset Button x 1 Power Button x 1 HDMI x 1 Antenna Hole x 2

Dimension Unit: mm



Ordering Information

Part Number	CPU	RAM	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2273E7-A10-A10-00	Intel® Celeron® N3350	204-pin DDR3L SODIMM socket x 1	2 pairs	Full Size x 1 (PCIe + USB) with SIM socket Full Size x 1 (USB signal) with SIM socket	CF socket x 1 2.5" HDD Bay x 1	6	USB 3.2 Gen 1 x 2	RJ-45 x 1	Fanless	—	HDMI x 1	Desktop	DC

Packing List

- SATA Cable x 1
- SATA Power Cable x 1
- Power Adapter
- FWS-2273

Optional Accessories

- 1700091805
Console Cable
- 1702031802
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- 1702031803
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- 170203180B
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- 170203180E
Power Cord, 3P-250V/10A, 180D, 1.8M, PSE, YP12/YC-12

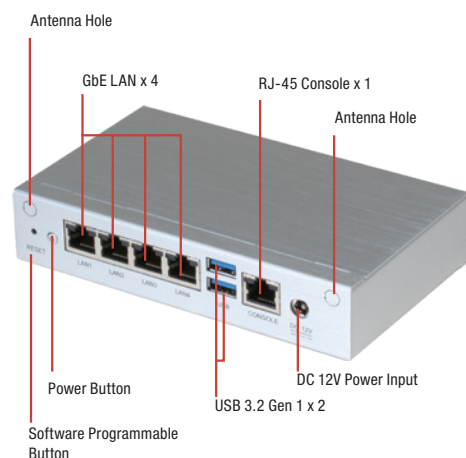
FWS-2272

Desktop 4 LAN Ports Network Appliance with Intel® Celeron® N3350 Processor SoC

Front View



Rear View



Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Celeron® N3350 Processor
Chipset	Intel® Celeron® N3350 Processor
System Memory	Onboard LPDDR4 1GB memory. Optional BOM SKU supports 204-pin DDR3L SODIMM x 1, up to 8GB
Network	
Ethernet	Intel® i211, Gigabit Ethernet x 4
Bypass	—
Display	
Graphic Controller	Intel® HD Graphics 505 Integrated
Connector	—
Storage	
HDD	—
CF/CFast/MSATA	Onboard 8GB eMMC SATA 6.0 Gb/s port x 1, for SATA DOM

Features

- Intel® Celeron® N3350 Processor SoC
- Onboard LPDDR4 1 GB Memory
- 10/100/1000Base-TX x 4
- Onboard 8GB eMMC, SATA 6.0 Gb/s Port x 1
- Mini-Card Slot (with SIM Socket) x 1
- RJ-45 Console x 1, USB 3.2 Gen 1 x 2



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	Mini-Card socket (full-size) with SIM socket x 1
Keyboard and Mouse	—
USB	USB 3.2 Gen 1 x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	—
TPM	(TPM v1.2 9660/TPM2.0 9665 Optional)
GPIO	Reserved internal pin-header 8-bit Digital I/O interface (4-in /4-out)
Fan	Fanless
MTBF (Hours)	162,469
Color	Silver

Environmental Parameters and Dimension

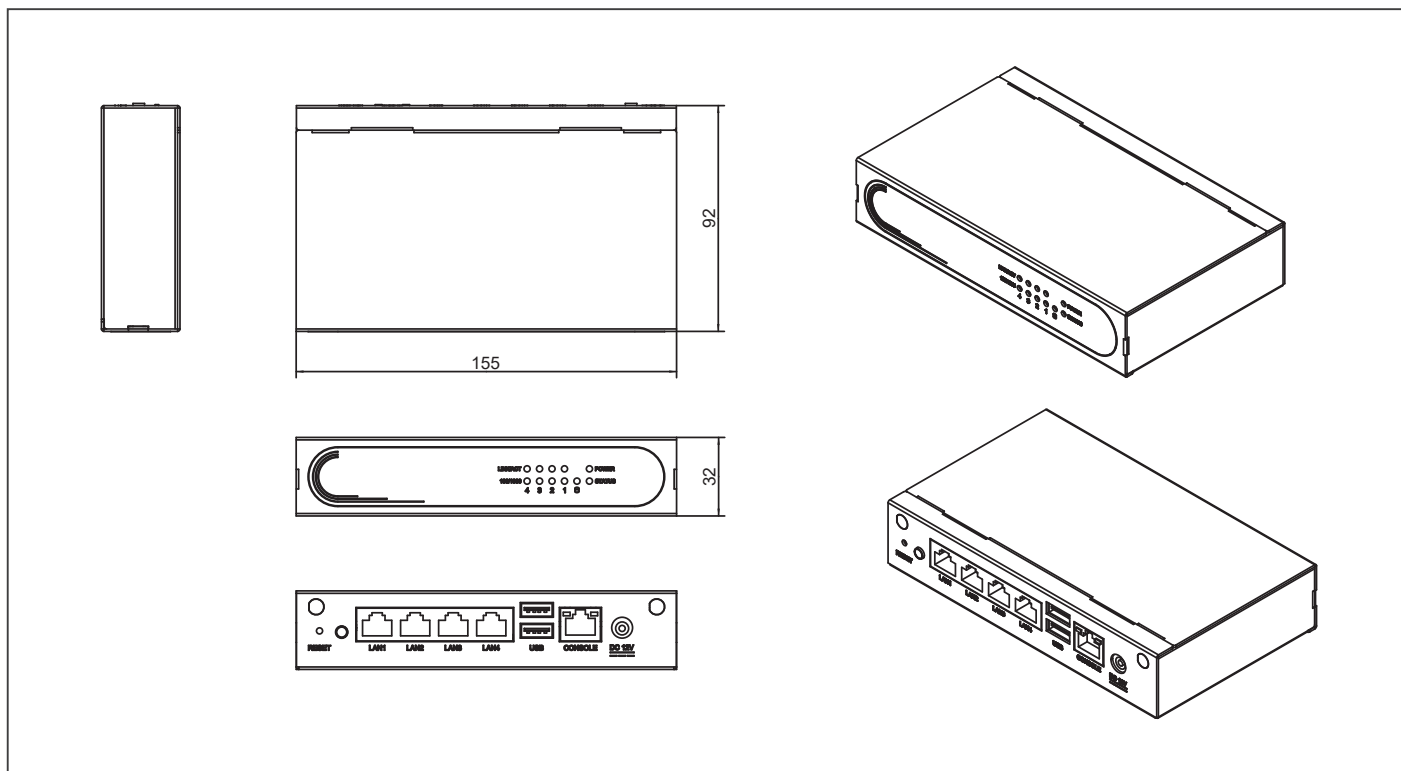
Power Requirement	12V DC Power in connector
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (SATA DOM) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W x D x H)	6.1" x 3.62" x 1.26" (155mm x 92mm x 32mm)

I/O

Front Panel	Power LED x 1 Status LED x 1 Storage Active LED x 1 LAN LED x 8
Rear Panel	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 4 RJ-45 Console x 1 12V DC Power Input x 1 Software Reset Button x 1 Power Button x 1 Antenna Hole x 2

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2272E4-A10-A10-00	Intel® Celeron® N3350	Onboard 1GB LPDDR4	—	Full Size (USB Only)+ SIM socket x 1	Onboard 8GB eMMC, SATA 6.0 Gb/s Port x 1	4	USB 3.2 Gen 1 x 2	RJ-45 x 1	Fanless	—	—	Desktop	DC

Packing List

- Power Adapter
- FWS-2272

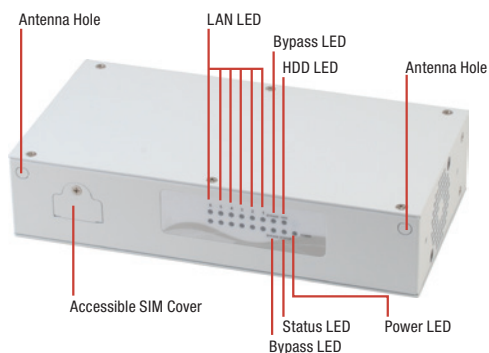
Optional Accessories

- 1700091805
Console Cable
- 1702021832
Power Cord, 2P/2P, 1.8M, USA
- 1702021836
Power Cord, 2P/2P, 1.8M, EU

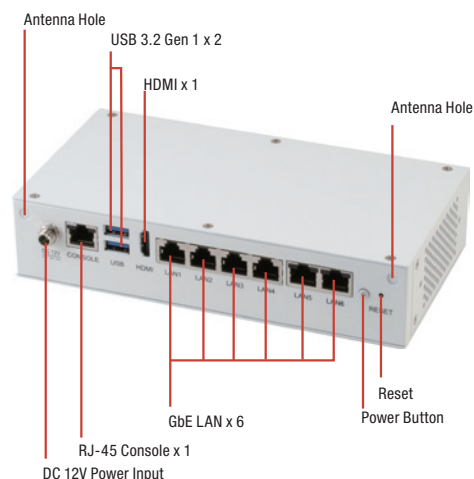
FWS-2271

Desktop 6 LAN Ports Network Appliance with Intel® N3350 Processor SoC

Front View



Rear View



Specifications

System	
Form Factor	Desktop 6-port Network Appliance
Processor	Onboard Intel® Celeron® processor N3350
Chipset	Integrated
System Memory	204-pin DDR3L 1867MHz SODIMM Up to 1, 8 GB
Network	
Ethernet	Intel® i211 (Co-lay with Intel® i210), Gigabit Ethernet x 6 (BOM Optional 4 Ports)
Bypass	Supports up to 2 pairs bypass function
Display	
Graphics Controller	Intel® HD Graphics 505 Intergrated
Connector	HDMI x 1
Storage	
HDD	2.5" HDD Bay x 1
CF/CFast/mSATA	CFast™ socket x 1 (Co-lay for BOM Optional CompactFlash™ socket x 1)

Features

- Intel® N3350 Processor SoC
- 204-pin Dual-channel DDR3L 1867MHz SODIMM Up to 1, 8 GB
- 10/100/1000Base-TX Ethernet Port x 6
- CFast™ Socket x 1
- Mini-Card Slot x 2 (USB Signal only with SIM Socket x 1)
- Accessible SIM Cover
- Supports TPM
- RJ-45 Console x 1, USB 3.2 Gen 1 x 2, HDMI x 1
- Supports Antenna up to 4



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	Mini-Card socket (full-size) with SIM socket x 2
Keyboard and Mouse	Reserved pin-header
USB	USB 3.2 Gen 1 Type A on I/O side x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	Optional TPM v1.2 9660/TPM2.0 9665
GPIO	Reserved internal pin-header 8-bit Digital I/O interface (4-in /4-out)
Fan	System Fan x 1
MTBF (Hours)	118,725
Color	White

Environmental Parameters and Dimension

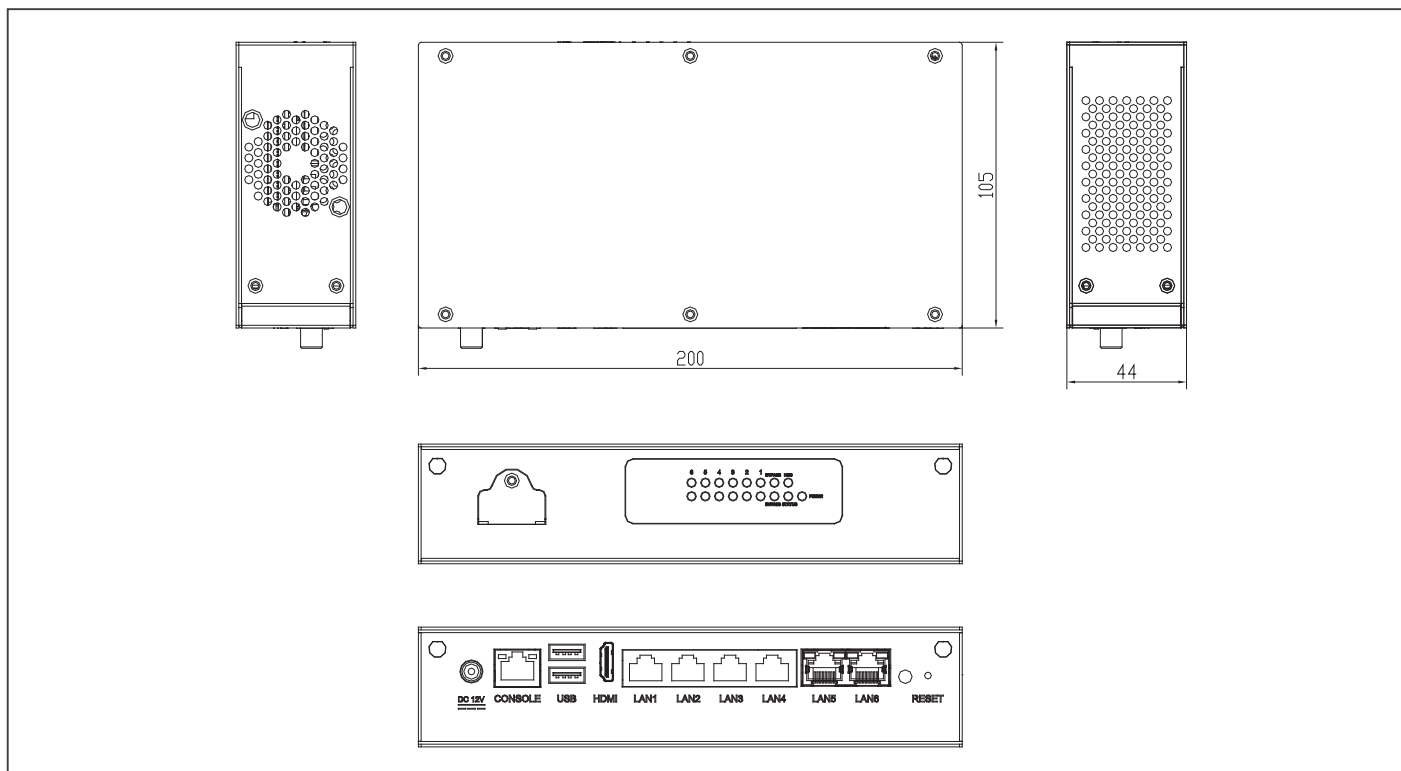
Power Consumption	12V DC In/ 40W power adapter x 1
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non-operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non-operation
Dimension (W x D x H)	7.87" x 4.13" x 1.73"(200mm x 105mm x 44 mm)

I/O

Front Panel	Bypass LED x 2 Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 12
Rear Panel	USB 3.2 Gen 1 Port x 2 RJ-45 Port x 6 (BOM Optional RJ-45 Port x 4) RJ-45 Console x 1 12V DC Power Input x 1 Software Programmable button x1 HDMI x 1 Power Button x 1

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2271E6-A10-A10-00	Intel® Celeron® N3350	DDR3L, SODIMM Single Channel	2 pairs	Full Size (PCIe+USB) x 1 Full Size (USB Only) + SIM socket x 1	SATA II Port x 1, CFast™ socket x 1	6	USB 3.2 Gen 1 x 2	RJ-45 x 1	Fan x 1	—	HDMI x 1	Desktop	DC

Packing List

- SATA Cable x 1
- SATA Power Cable x 1
- Power Adapter
- FWS-2271

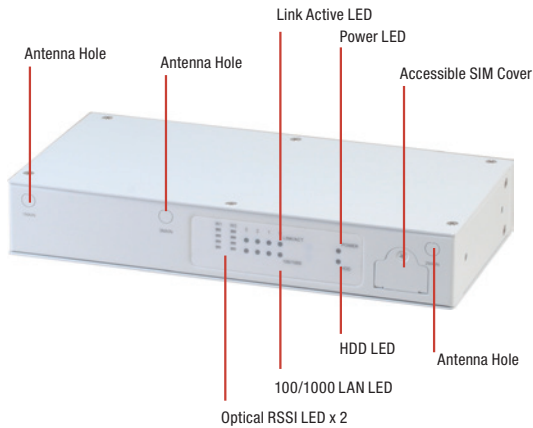
Optional Accessories

- **1700091805**
Console Cable
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12

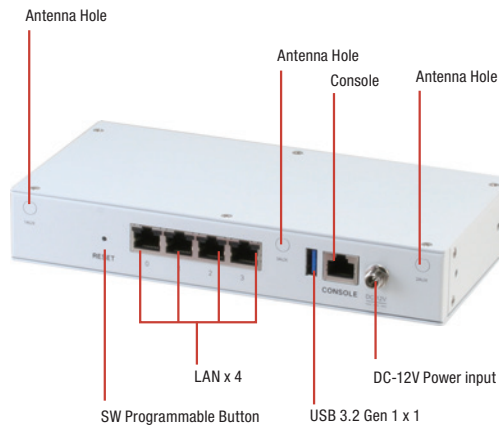
FWS-2251

Desktop 4 LAN Ports Network Appliance with Intel® Celeron® J1900 Processor SoC

Front View



Rear View



Specifications

System	
Form Factor	Desktop 4-Port Network Appliance
Processor	Intel® Celeron® J1900 2.0 GHz (Quad Core)
Chipset	—
System Memory	204-pin dual-channel DDR3L 1333/1600MHz SODIMM x 2, up to 8GB
Network	
Ethernet	Intel® i211, Gigabit Ethernet x 4
Bypass	—
Display	
Graphic Controller	Intel® HD Graphics
Connector	Reserved internal VGA pin-header x 1
Storage	
HDDs	Optional SATA2 connector x 1 (SATA DOM Horizontal and no housing type only)
CF/CFast/mSATA	CF socket x 1

Features

- Intel® Celeron® J1900 Processor SoC
- 204-pin Dual-channel DDR3L 1333MHz SODIMM x 2, Up to 8 GB
- 10/100/1000Base-TX Ethernet Port x 4
- CompactFlash™ socket x 1
- Mini-Card Slot x 3 (Half Size x 1, Full Size with SIM Socket x 1, USB 2.0 Signal only Full size with Dual SIM Socket x 1)
- Accessible SIM Cover
- RJ-45 console x 1, USB 3.2 Gen 1 x 1
- Supports Antenna up to 6
- RSSI LED x 2



Internal/ Expansion Interface

PCIe slot	—
Mini-PCIe slot	Mini-Card Slot x 3 (Half Size x 1, Full Size with SIM Socket x 1, USB 2.0 Signal only Full size with dual SIM socket x 1)
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 x 1

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	Default N/A, optional TPM V1.2 or 2.0
GPIO	—
FAN	Fanless
MTBF (Hours)	85,551
Color	White

Environmental Parameters and Dimension

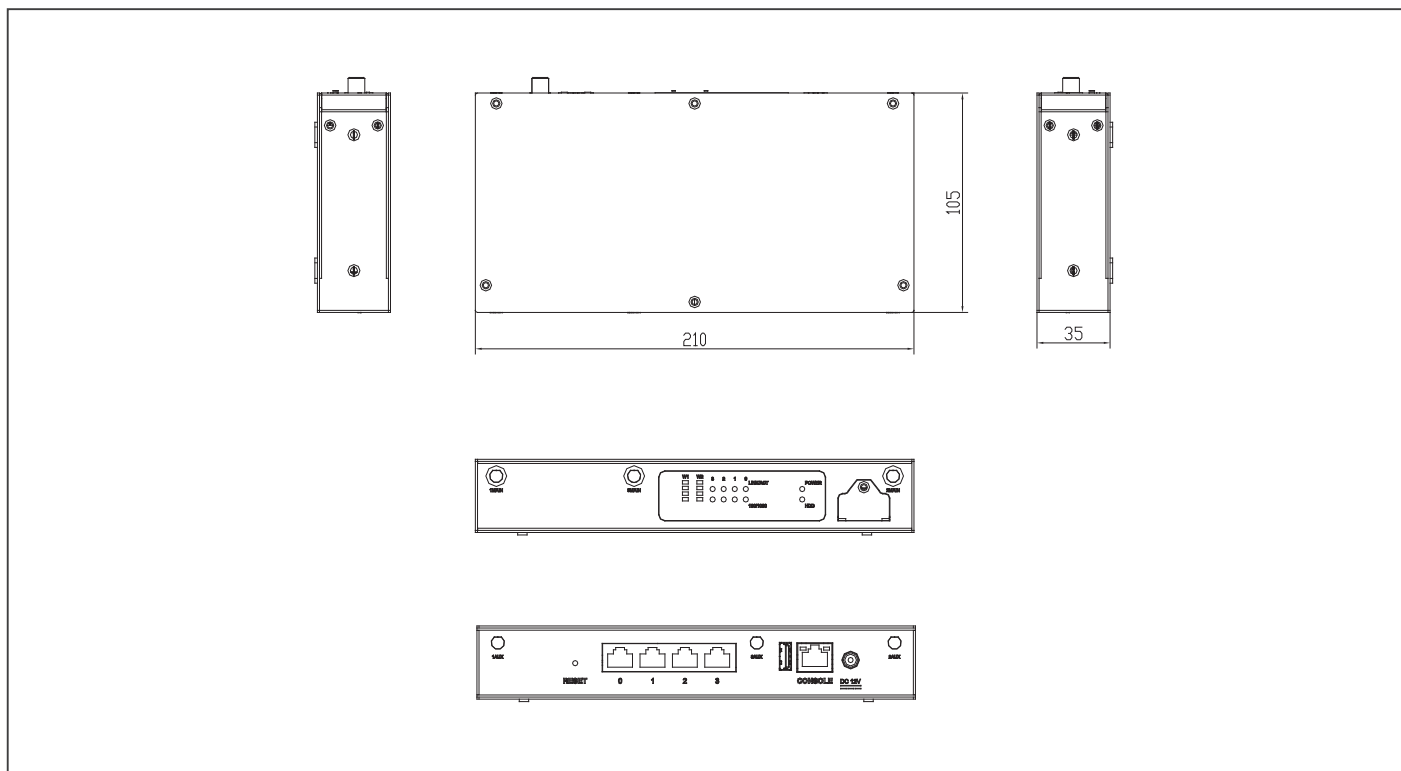
Power Requirement	12V DC power in connector/ 40W Power adapter x 1, 4-pin DC power out connector for HDD x 1
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (SATA DOM) 1.5 Grms/ 5 ~ 500Hz/ non-operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	8.27" x 4.09" x 1.38" (210mm x 104mm x 35mm)

I/O

Front Panel	- Power LED x 1 - HDD Active LED x 1 - LAN LED x 8 - RSSI LED x 2 (optional) - Accessible SIM cover x 1
Rear Panel	- 12V DC Power Input x 1 - Power Button x 1 - USB 3.2 Gen 1 x 1 - RJ-45 LAN x 4 - RJ-45 Console x 1 - Software Programmable Button x 1

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2251E4-A10-A10-00	Intel® Celeron® J1900	DDR3L, SODIMM Dual-Channel	—	1 half size, 1 full size with SIM, 1 full size with Dual-SIM (USB 2.0 signal only)	CompactFlash™ socket x 1	4	USB 3.2 Gen 1 x 1	RJ-45 x 1	Fanless	—	—	Desktop	DC

Packing List

- Power Adapter
- FWS-2251

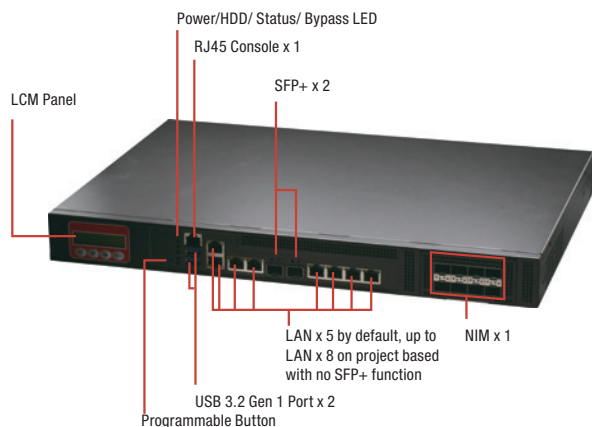
Optional Accessories

- **1700091805**
Console Cable
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12
- **1704150154**
VGA Cable for Debug Only

FWS-7360

1U Rackmount 7 LAN Network Appliance with Intel® Atom™ C3758 Processor SoC

Front View



Rear View



Features

- Intel® Atom™ C3758 SoC Processor, Optional Support up to 16 Core
- DDR4 Slot x 4, Support UDIMM/ECC, up to 64GB
- 5 Copper (2 From 88E1543/ 3 From Intel® I211)
- 2 10Gb SFP+ (From CPU)
- Onboard 2 Pairs Bypass
- Mini-Card Socket (Full-Size) x 1, Mini-Card Socket (Full-Size) with SIM Socket x 1 (Optional)
- Internal 2.5" SATA HDD x 2
- LCM with Keypad x 1, RJ-45 Console x 1, USB 3.2 Gen 1 x 2
- 100W Flex ATX PSU
- TPM (Optional)



Internal/ Expansion Interface

PCIe Slot	PCIe [x8] slot x 1, cannot use w/ NIM
Mini-PCIe Slot	Default Mini-Card socket (full-size) x1 (Mini-Card socket (full-size) with SIM socket x 1 Optional)
IPMI	—
Keyboard and Mouse	—
USB	USB 3.2 Gen 1 x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable Button x 1
TPM	Optional TPM v1.2 / TPM v2.0
GPIO	4 bits input, 4bits output
Fan	System Fan x 1
MTBF (Hours)	142,412
Color	Black

Environmental Parameters and Dimension

Power Requirement	100W Flex ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (2.5" HDD) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	16.93" x 12.01" x 1.73" (430mm x 305mm x 44mm)

I/O

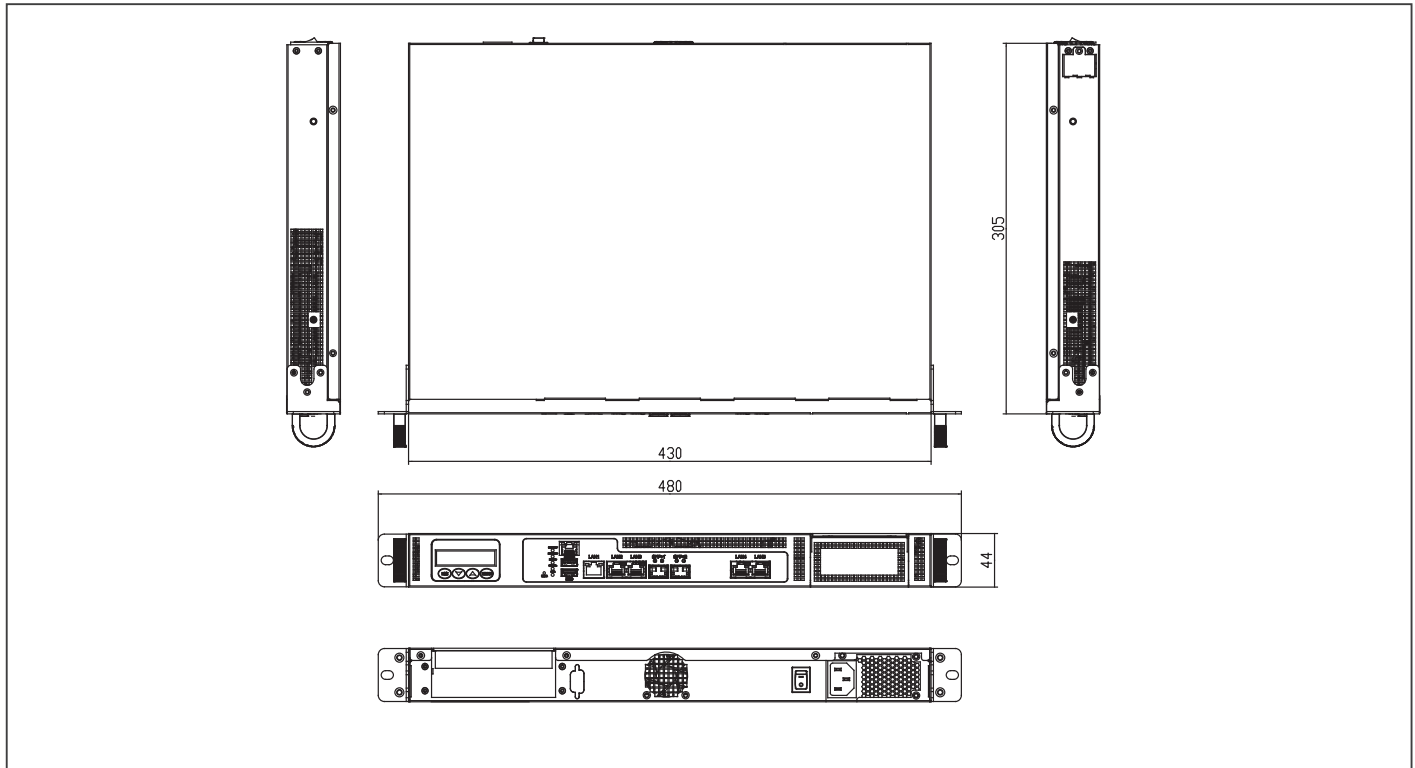
Front Panel	SFP+ with LED x 2 RJ45 Ethernet Port with LED x 5 USB 3.2 Gen 1 x 2 RJ45 Console x 1 Software Programmable Button x 1 Parallel LCM Display and 4 Keypad x 1 LED for Power/HDD/ Status/ Bypass x 5 NIM Slot x 1 Bypass LED x 2 Power LED x1 HDD LED x1 Status LED x1
Rear Panel	Power Switch x 1 AC Power Input x 1 Rear Expansion Slot x 1

Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	Intel® C3758 processor SoC, optional support up to 16 core
Chipset	SoC
System Memory	DDR4/1866/2133/2400 ECC Up to 64GB 218-pin DIMM/RDIMM X4
Network	
Ethernet	Intel®X553 RJ45 x 2, Intel® i211 GbE x 3, SFP+ x 2 from CPU
Bypass	Onboard 2 pairs bypass, others depend on NIM module
NIM Slot	1
Display	
Graphic Controller	—
Connector	—
Storage	
HDD	2.5" HDD Bay x 2
CF/CFast/mSATA	Default SATA III port x 2 (MSATA Slot X 2 Optional)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	LAN	USB	Console	Bypass	NIM Slot	Expansion Slot	TPM	Display
FWS-7360E7-A10-000	Intel® Atom® C3758	DDR4 UDIMM/ECC slot x 4	Full Size x 1 (PCIe + USB)	2.5" HDD Bay x 2	RJ45 x 5, SFP+ x 2	USB 3.2 Gen 1 x 2	RJ-45 x 1	2 pairs onboard	1 (Note 1)	1 (Note 2)	—	—

* Please contact AAEON for other optional specifications.

Note 1: Need to configure riser card and module

Note 2: Need to configure riser card

Note 3: NIM and expansion slot cannot be used at the same time

Packing List

- Console Cable
- Ear Brackets
- FWS-7360

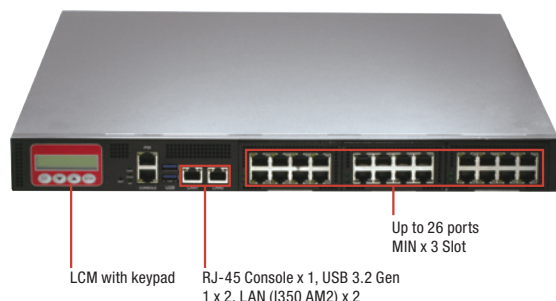
Optional Accessories

- **M02666600**
Slide x 2, for Rackmount Usage
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **PER-R40X**
NIM LAN Module Riser Card
- **NIM-S26C-A10-T40-0002**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7821
- **NIM-S26B-A10-F20-0002**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7821
- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820
- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821
- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7821 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7821 w/ 2Pair bypass
- **NIM-S13E-A10-G82-0002**
LAN Module, Intel® 82580EB, 8 x 1GbE SFP, 2 Bypass, FWS-7820/7821, Rev. A.1.0

FWS-7830

1U Rackmount Intel® 8th Generation Platform Network Appliance

Front View



Rear View



Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	8th Generation Intel® Core™/ Xeon® processor
Chipset	Intel® C246
System Memory	DDR4 2133/2400/2666 UDIMM Up to 64GB 288-pin DIMM x 4
Network	
Ethernet	Intel® I350 AM2 Gigabit Ethernet x 2
Bypass	Depend on NIM module
NIM Slot	NIM Slot x3
Display	
Graphic Controller	Intel® HD graphics integrated
Connector	VGA cable (Optional)

Features

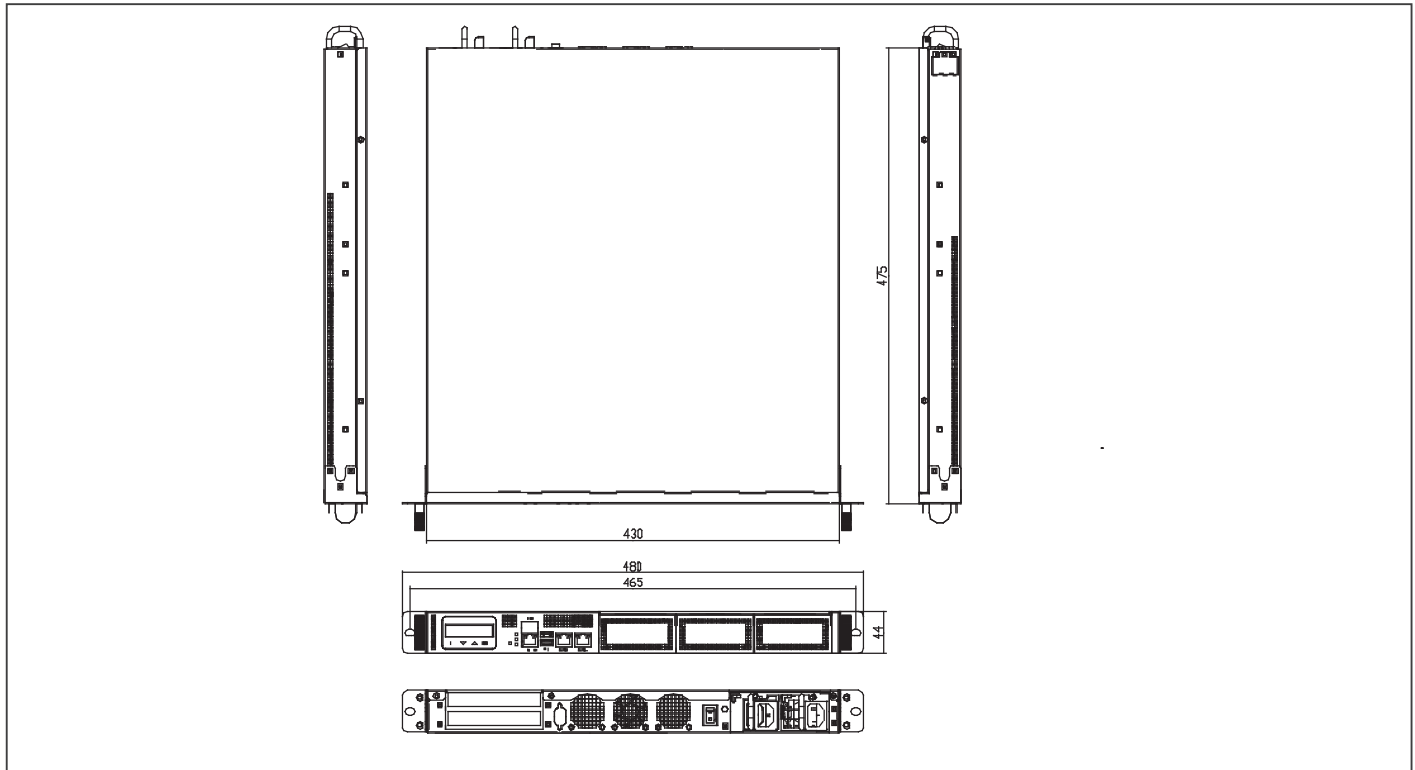
- 1U Rackmount Network Appliance
- Single Intel® 8th Generation Core™/Xeon™ processor
- Intel® Communications Chipset C246
- DDR4 2133/2400/2666 MHz UDIMM x 4, Up to 64 GB
- IPMI Support by Aaeon Module
- Onboard 2 LAN (I350 AM2)
- Up to 24 Gigabit Ethernet Ports Via NIM
- 1 x 3.5" SATA HDD or 2.5" SATA HDD x 2, mSATA Socket x 1
- LCM with Keypad x 1
- RJ-45 Console x 1, USB 3.2 Gen 1 x 2, 1 GbE LAN x 2
- 220W Single Power



Storage	
HDDs	Internal 2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (Optional)
CF/CFast/mSATA	Default mSATA Slot (Optional CFast™ Socket)
Internal/ Expansion Interface	
PCIe slot	NIM x 3 Mini PCIe Slot x 1 or mSATA x 1
Mini-PCIe slot	Mini Card x 1
IPMI	—
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 x 2, Box Header (2.0mm)
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable, 1 sec per step
Software Button	GPIO Programmable push button x 1
TPM	Optional TPM v2.0
GPIO	8bits, BIOS default 4 bits input, 4bits output.
FAN	2
MTBF (Hours)	TBD
Color	Black
Environmental Parameters and Dimension	
Power Requirement	220W ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80%
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	16.93" x 18.7" x 1.73"(430mm x 475mm x 44mm)
I/O Interfaces	
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	LAN	USB	Console	Bypass	NIM Slot	Expansion Slot	TPM	Display	Fan	Mounting	Power
FWS-7830W2-H22-A10-000	Intel® 8th Generation Core™/Xeon® Processors	DDR4 UDIMM x 4, Up to 64GB	—	2.5" HDD Bay x 2 + mSATA slot x1	Intel® I350 AM2 Gigabit Ethernet x 2	USB 3.2 Gen 1 x 2	RJ-45 console x 1	—	3 (Note 1)	1 (Note 2)	—	—	2	1U Rackmount	ATX

* Please contact AAEON for other optional specifications.

Note 1: Need to configure riser card and module

Note 2: Need to configure riser card

Packing List

- Console Cable
- Ear Brackets
- FWS-7830

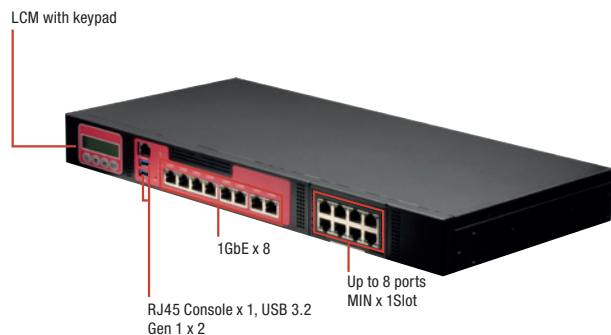
Optional Accessories

- **M02666600**
Slide x 2, for Rackmount Usage
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761781027**
VGA Cable
- **9761783000**
(TF)3.5x1 HDD Module, FWS-7830
- **9761783001**
(TF)2.5x2_HDD-LEFT Module, FWS-7830
- **NIM-S26C-A10-T40-0002**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7820/7830
- **NIM-S26B-A10-F20-0002**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7820/7830
- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820/7830
- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821/7830
- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820 w/ 2Pair bypass/7830
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820 w/ 2Pair bypass/7830

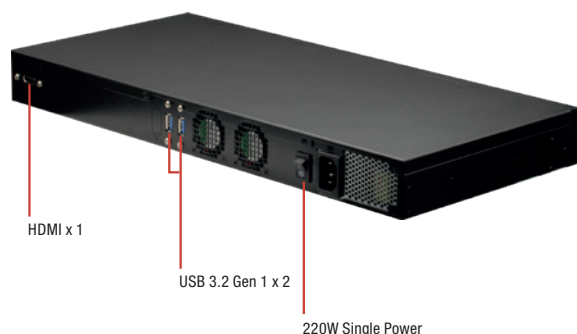
FWS-7831

1U Rackmount Intel® 8th Generation Platform Network Appliance

Front View



Rear View



Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	Intel® Xeon® processor E-2100 family for Intel® C246 Chipset Intel® Core™/ Celeron® processor for Intel® H310 Chipset
Chipset	Intel®C246/H310
System Memory	DDR4 SODIMM x 2/ECC Up to 32GB DDR4 1600/1866/2133 SODIMM/ECC up to 32GB 260-pin DIMM x 2
Network	
Ethernet	Intel® i211 Gigabit Ethernet x 8 or Intel® i211 Gigabit Ethernet x 6 + SFP Ethernet ports x2 (C246) Intel® i211 Gigabit Ethernet x 6 (H310)
Bypass	2 Pairs
NIM Slot	Need to configure riser card

Features

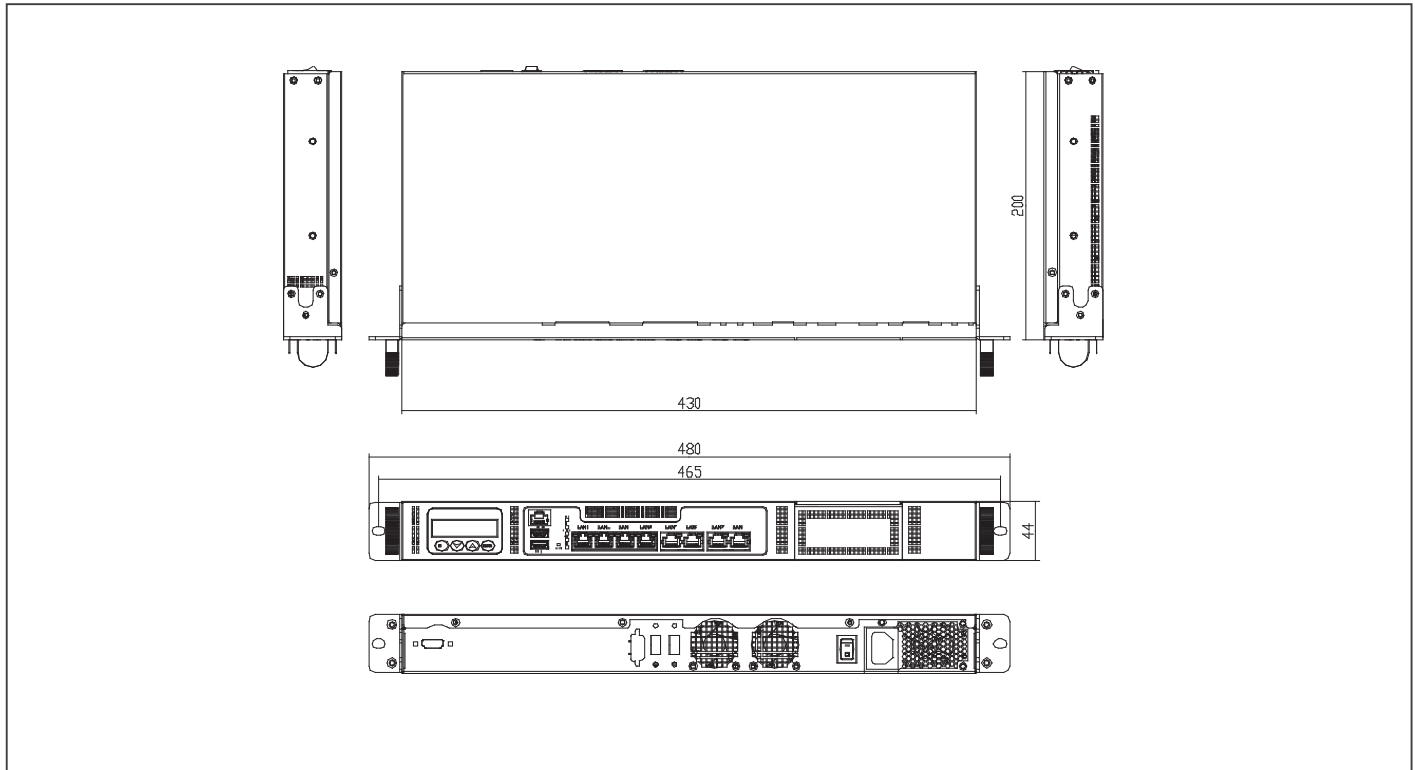
- Single Intel® 8th Generation Core™/Xeon™ processor
- Intel® Coffee Lake 2/6 Core (H310/C246)
- 2 x DDR4 SO DIMM/ECC Up to 32GB
- TPM Supported (Optional Request)
- LCM with Keypad x 1
- RJ-45 Console x 1, USB 3.2 Gen 1 x 2, HDMI x1
- 220W ATX PSU
- Intel® i211 Gigabit Ethernet x 8 or Intel® i211 Gigabit Ethernet x 6 + SFP Ethernet ports x2
- Mini-Card (mSATA)



Display	
Graphic Controller	Intel® UHD Graphics 630
Connector	(HDMI x1 Optional)
Storage	
HDDs	Internal 2.5" HDD bay x 2 or (3.5" HDD bay x 1 can't use with NIM Optional)
CF/CFast/mSATA	mSATA
Internal/ Expansion Interface	
PCIe slot	NIM Slot x 1
Mini-PCIe slot	Mini-Card x 1 (PCIe[x1] + mSATA)
IPMI	—
Keyboard and Mouse	NA
USB	USB 3.2 Gen 1 x 2
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	(TPM2.0 9665/TPM v1.2 9660 optional)
GPIO	4 bits input, 4 bits output
FAN	2
MTBF (Hours)	362,825 Hours
Color	Black
Environmental Parameters and Dimension	
Power Requirement	220W ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10%~80% relative humidity, non-condensing
Storage Humidity	10%~80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	TBD
Dimension (W X D X H)	16.93" x 7.87" x 1.73"(430mm x 200mm x 44mm)
I/O Interfaces	
Front Panel	Power LED x 1, Status LED x 1, HDD Active LED x 1, USB 3.2 Gen 1 Ports x 2 - RJ-45 Console x 1
Rear Panel	AC Power Input x 1, Power Switch x 1, (Rear Expansion Slot x 1 Optional)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	LAN	USB	Console	Bypass	NIM Slot*	Expansion Slot	TPM	Display	Fan	Mounting	Power
FWS-7831W8-H22-A10-000	Intel® 8th Generation Core™/ Xeon® Processors	2DDR4 S0 DIMM X2 / ECC Up to 32GB	Mini-Card x 1(Pcie[x1]+mSATA)	2.5" HDD Bay x 2	Intel® I211 Gigabit Ethernet x 8	USB 3.2 Gen 1 x 2	RJ-45 console x 1	2 Pairs	1 (Note)	—	—	—	2	1U Rackmount	ATX

* Note: Need to configure riser card and module
(Please contact AAEON for other optional specifications.)

Packing List

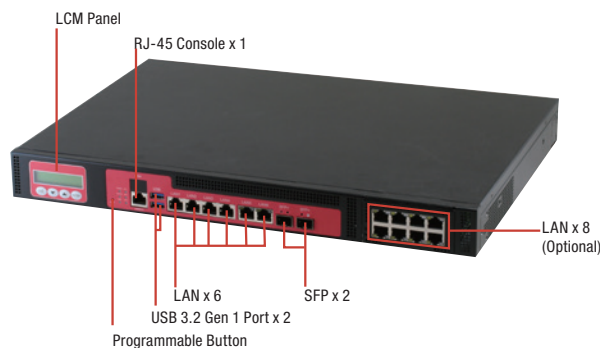
- Console Cable
- Ear Brackets
- FWS-7831

Optional Accessories

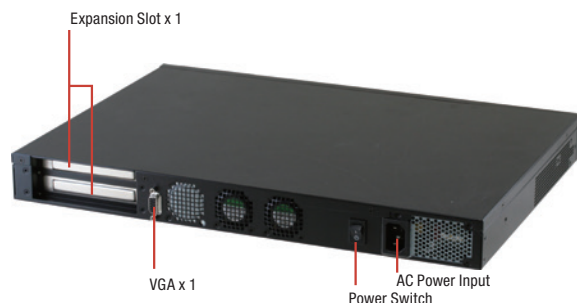
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761783102**
HDMI Cable with screw
- **9761783000**
(TF)3.5x1 HDD Module, FWS-7830/7831
- **NIM-S26C-A10-T40-0002**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7820/7830/7831
- **NIM-S26B-A10-F20-0002**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7820/7830/7831
- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820/7830/7831
- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821/7830/7831
- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820 w/ 2Pair bypass/7830/7831
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820 w/ 2Pair bypass/7830/7831
- **PER-R40X**
NIM LAN Module Riser Card

Intel® C236 1U Rackmount 8 LANs with 1 NIM Slot Network Appliance

Front View



Rear View



Features

- 1U Rackmount Network Appliance
- Intel® LGA1151 6th/7th Generation Core™/Xeon Processors
- 288-pin ECC Dual Channel DDR4 2133 UDIMM x 4 Up to 64GB
- 10/100/1000Base-TX Ethernet Ports x 8 (Onboard RJ-45 x 6 & SFP x 2) with Max. 3 Pairs of LAN Bypass Function
- Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2 (Optional Extra 4 Pcs x 2.5" HDD without NIM and Expansion Lot Presented)
- CFast x 1 (Optional CF Socket or mSATA Slot)
- 8 bits GPIO (Default 4-bits Input, 4-bits Output)
- TPM Supported (Optional Request), RAID 0,1 Supported
- LCM with Keypad x 1, RJ-45 for Console x 1, USB 3.2 Gen 1 x 2
- 250W AC Type Power Input
- VGA Header x 1 (Optional VGA Cable)



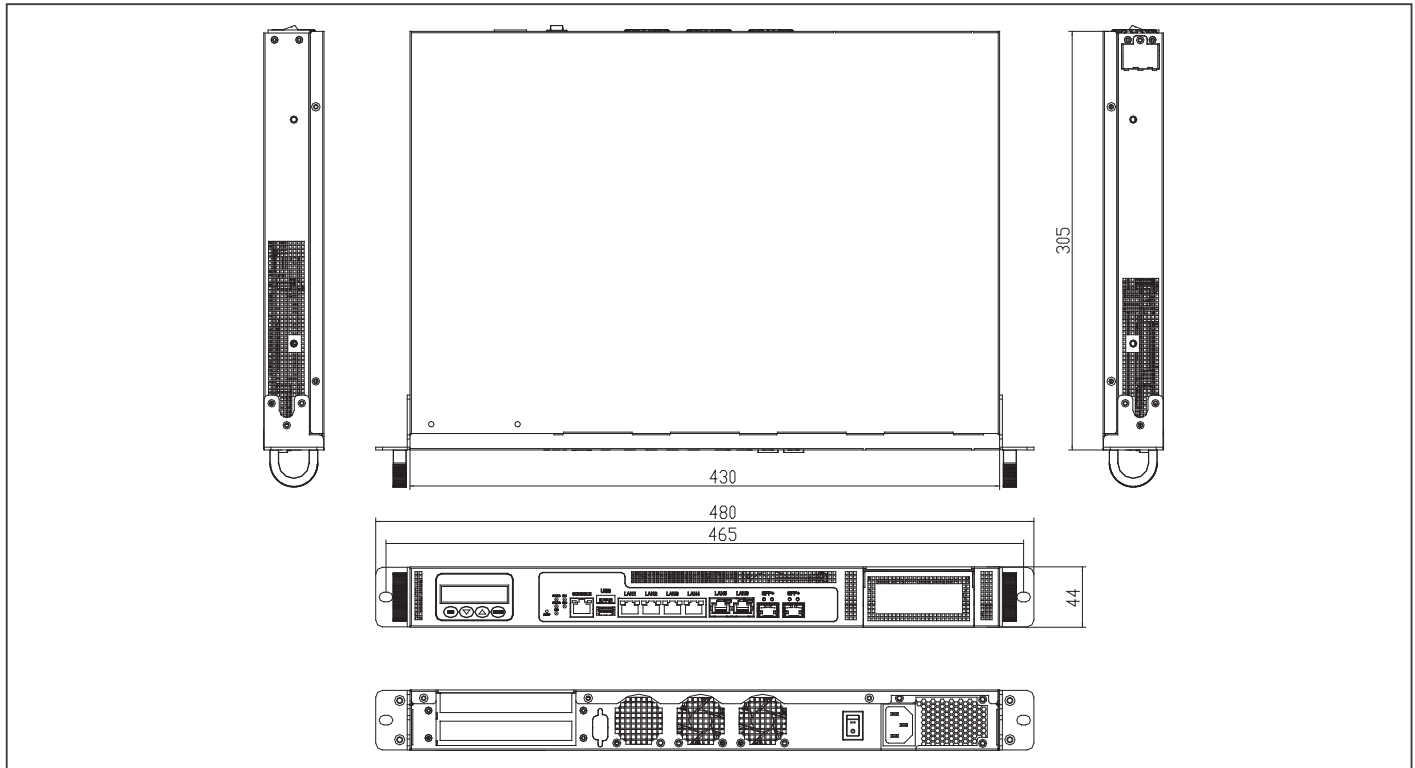
Storage	
HDDs	Internal 2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (optional)
CF/CFast/mSATA	Optional BOM CFast™ socket or mSATA slot or CF™ socket (optional)
Internal/ Expansion Interface	
PCIe slot	Up to PCIe[x8] slot x 2
Mini-PCIe slot	Mini Card x 1
IPMI	—
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 x 2, Box Header (2.0mm)
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable, 1 sec per step
Software Button	GPIO Programmable push button x 1
TPM	TPM v1.2 9660 (TPM2.0 9665 optional)
GPIO	4 bits input, 4 bits output
FAN	2
MTBF (Hours)	94,241
Color	Black
Environmental Parameters and Dimension	
Power Requirement	250W ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	16.93" x 12.01" x 1.73" (430mm x 305mm x 44mm)
I/O Interfaces	
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 (Optional w/ NIM slot) Software Programmable Switch x 1 Bypass LED X2 RJ45 X8 or RJ45 X6+SFPX 2
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 2 (2 x PCIe [x8] slots, NIM slot will be disabled if PCIe Riser supported)

Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	6th/7th Generation Intel® Core™/ Xeon® processors
Chipset	Intel® C236
System Memory	DDR4 1600/1866/2133/2400 UDIMM/ECC Up to 64GB 288-pin DIMM x 4
Network	
Ethernet	Intel® i211 GbE x 6 + Intel® i210 GbE x 2 (SFP) + NIM x 1(Or i211 GbE x8 +NIMx1)UDIMM/ECC
Bypass	Onboard 2 pairs bypass, others depend on NIM module
NIM Slot	1
Display	
Graphic Controller	Intel® HD graphics integrated
Connector	VGA cable (Optional)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Storage	Display	LAN	USB	Console	Bypass	*NIM Slot	*Expansion Slot
FWS-7821W8-H25-A10-000	6th/7th Gen. Intel® Core™/Xeon	DDR4 ECC/UDIMM (Up to 64 GB)	2.5" HDD Bay x 2 + CFast™ Slot x 1	—	1 GbE x 6, 2 x 1G SFP	USB 3.2 Gen 1 x 2	RJ-45 x 1	2	1 (Note 1)	2 (Note 2)

* Please contact AAEON for other optional specifications.

Note 1: Need to configure riser card and module

Note 2: Need to configure riser card

Packing List

- Console Cable
- Ear Brackets
- FWS-7821

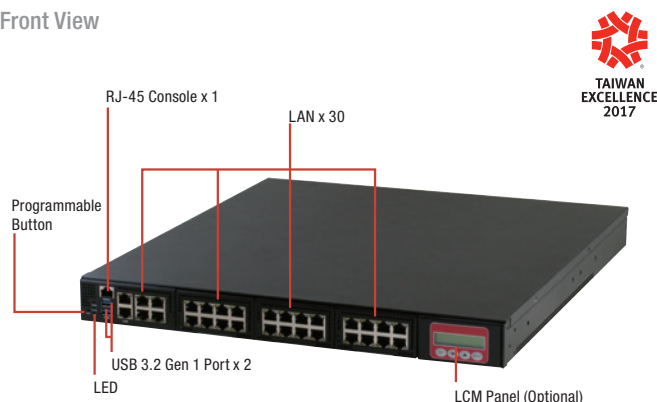
Optional Accessories

- **M02666600**
Slide x 2, for Rackmount Usage
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761781027**
VGA Cable
- **9761782100**
(TF)2.5" x 2 HDD-LEFT Module, FWS-7821
- **PER-R40X**
NIM LAN Module Riser Card
- **PER-R44X**
2 Slot Rear PCIe Riser Card
- **PER-T354**
1 Slot Rear PCIe Riser Card
- **NIM-S26C-A10-T40-0002**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7821
- **NIM-S26B-A10-F20-0002**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7821
- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820
- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821
- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7821 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7821 w/ 2Pair bypass
- **NIM-S13E-A10-G82-0002**
LAN Module, Intel® 82580EB, 8 x 1GbE SFP, 2 Bypass, FWS-7820/7821, Rev. A.1.0

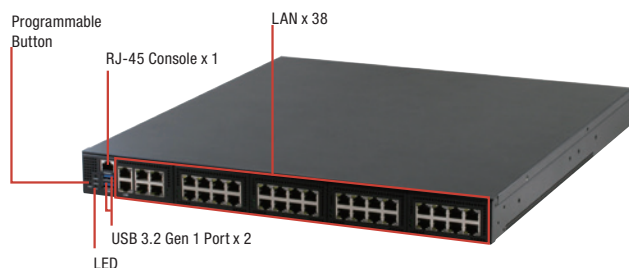
FWS-7820

1U Rackmount Network Appliance, Intel® C236 with 3 to 4 Network Interface Modules

Front View



Front View



Rear View



Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	6th Generation Intel® Core™/ Xeon® processors
Chipset	Intel® C236
System Memory	- DDR4 1600/1866/2133 UDIMM/ECC - Up to 64GB - 288-pin DIMM x 4
Network	
Ethernet	Intel® i210 GbE x 2, Intel® 82580 x4
Bypass	Onboard 2 pairs bypass, others depend on NIM module
NIM Slot	4 (Max. 5 slots by project base)
Display	
Graphic Controller	Intel® HD graphics integrated
Connector	VGA cable (Optional)

Features

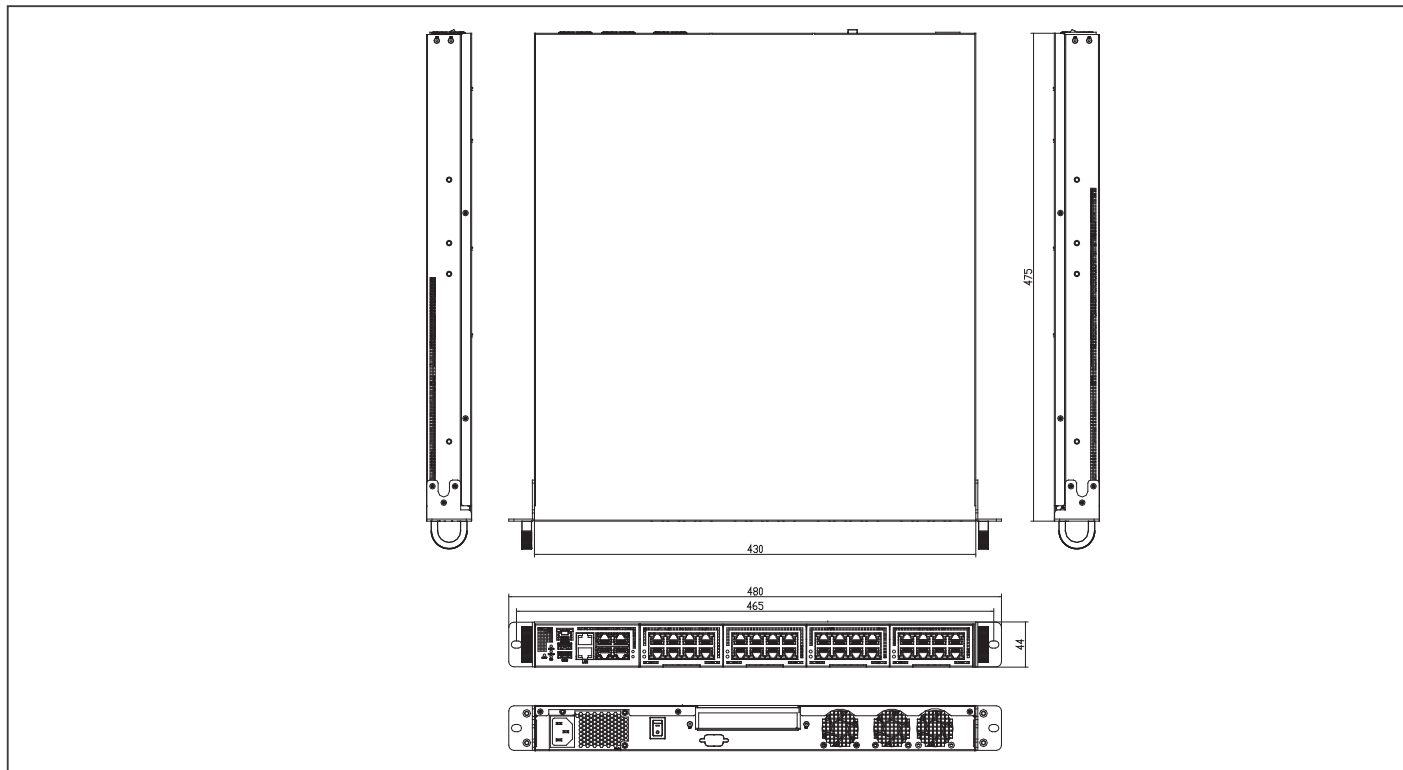
- 1U Rackmount Network Appliance
- 6th Gen. Intel® LGA1151 Core™/ Xeon Processor
- 288-pin DDR4 1600/1866/2133 MHz ECC/U-DIMM x 4 Up to 64 GB
- Up to 10/100/1000Base-TX Ethernet Port x 38 (Depends on NIM)
- Up to 2 SATA 6 GB Ports (Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2) *mSATA/ CF/ CFast will be Disabled if 2nd SATA HDD is Used
- CF Socket x 1 (Can be Replaced by CFast™ Socket or mSATA Slot)
- LCM with Keypad x 1 (3 NIM Slots SKU)
- RJ-45 for Console x 1, USB 3.2 Gen 1 x 2
- 250W AC Type Power Input Requirement
- VGA Header x 1 (Optional VGA Cable)



Storage	
HDDs	Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2 (Optional)* *(mSATA/ CF/ CFast will be disabled if 2nd SATA HDD is used)
CF/CFast/mSATA	CF socket x 1 (Optional BOM CFast™ socket or mSATA slot)
Internal/ Expansion Interface	
PCIe slot	PCIe [x4] signal use [x8] slot (3rd NIM slot will be disabled if PCIe Riser supported)
Mini-PCIe slot	—
IPMI	—
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 x 2, Box Header (2.0mm)
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable, 1 sec per step
Software Button	GPIO Programmable push button x 1
TPM	TPM2.0 9665 (TPM v1.2 9660 optional)
GPIO	8 bits, BIOS default 4 bits input, 4 bits output.
FAN	2
MTBF (Hours)	71,852
Color	Black
Environmental Parameters and Dimension	
Power Requirement	250W ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	16.93" x 18.7" x 1.73" (430mm x 475mm x 44mm)
I/O Interfaces	
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 (Optional w/ NIM slot) Software Programmable Switch x 1 Bypass LED x 2
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 1 (Optional PCIe [x4] signal use [x8] slot, 3rd NIM slot will be disabled if PCIe Riser supported)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Storage	Display	LAN	USB	Console	Bypass	NIM Slot
FWS-7820W6-H25-A10-000	6th Generation Intel® Core/Xeon Processors	DDR4 ECC/UDIMM (Up to 64 GB)	3.5" HDD Bay x 1 + CF Card Slot	—	1 GbE x 6	USB 3.2 Gen 1 x 2	RJ-45 x 1	2	3

* Please contact AAEON for other optional specifications.

Packing List

- Console Cable
- Ear Brackets
- FWS-7820

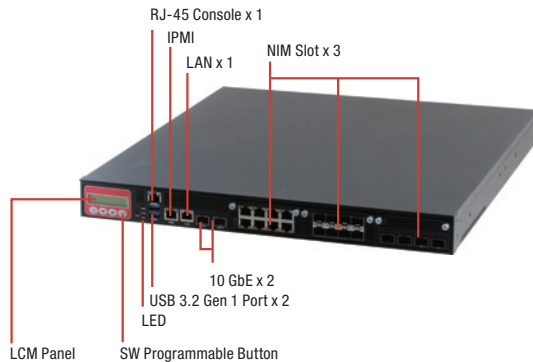
Optional Accessories

- **M02666600**
Slide x 2, for Rackmount Usage
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761781027**
VGA Cable
- **9761782008**
(TF)2.5" x 2 HDD Moudle, FWS-7820
- **9761782000**
(TF)3.5" x 1 HDD Moudle, FWS-7820
- **NIM-S26C-A10-T40-0002**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7820
- **NIM-S26B-A10-F20-0002**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7820
- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820
- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821
- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820 w/ 2Pair bypass

FWS-7520

1U Rackmount Network Appliance, Intel® Xeon™ Processor SoC with 3 NIM Slots

Front View



Rear View



Features

- 1U Rackmount Network Appliance
- Intel® FCBGA Xeon D-1548/D-1518 (Optional) SoC
- 288-pin ECC DDR4 x 4 1600/1867/2133MHz RDIMM Up to 128GB
- 10/100/1000Base-TX up to 24 Ethernet ports (Optional by NIM Modules)
- 10GbE SFP+ x 2
- IPMI (AST2500) Port x 1, VGA/BMC/KVMoIP Supported (Optional)
- 2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (Optional)
- LCM with Keypad x 1
- RJ-45 for Console x 1, USB 3.2 Gen 1 x 2
- 250W AC type/ 220W Redundant Power Input Requirement



Internal/ Expansion Interface

PCIe slot	PCIe [x4] signal use [x8] slot (optional)
Mini-Card slot	Mini Card x 1
IPMI	Optional Module
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 x 2 Box Header (2.0mm) (optional)

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	TPM v1.2
GPIO	8 bits, BIOS default 4 bits input, 4 bits output.
FAN	3
MTBF (Hours)	96,168
Color	Black

Environmental Parameters and Dimension

Power Requirement	250W ATX PSU or 220W Redundant PSU (Optional)
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80%
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	16.93" x 18.7" x 1.73" (430mm x 475mm x 44mm)

I/O Interfaces

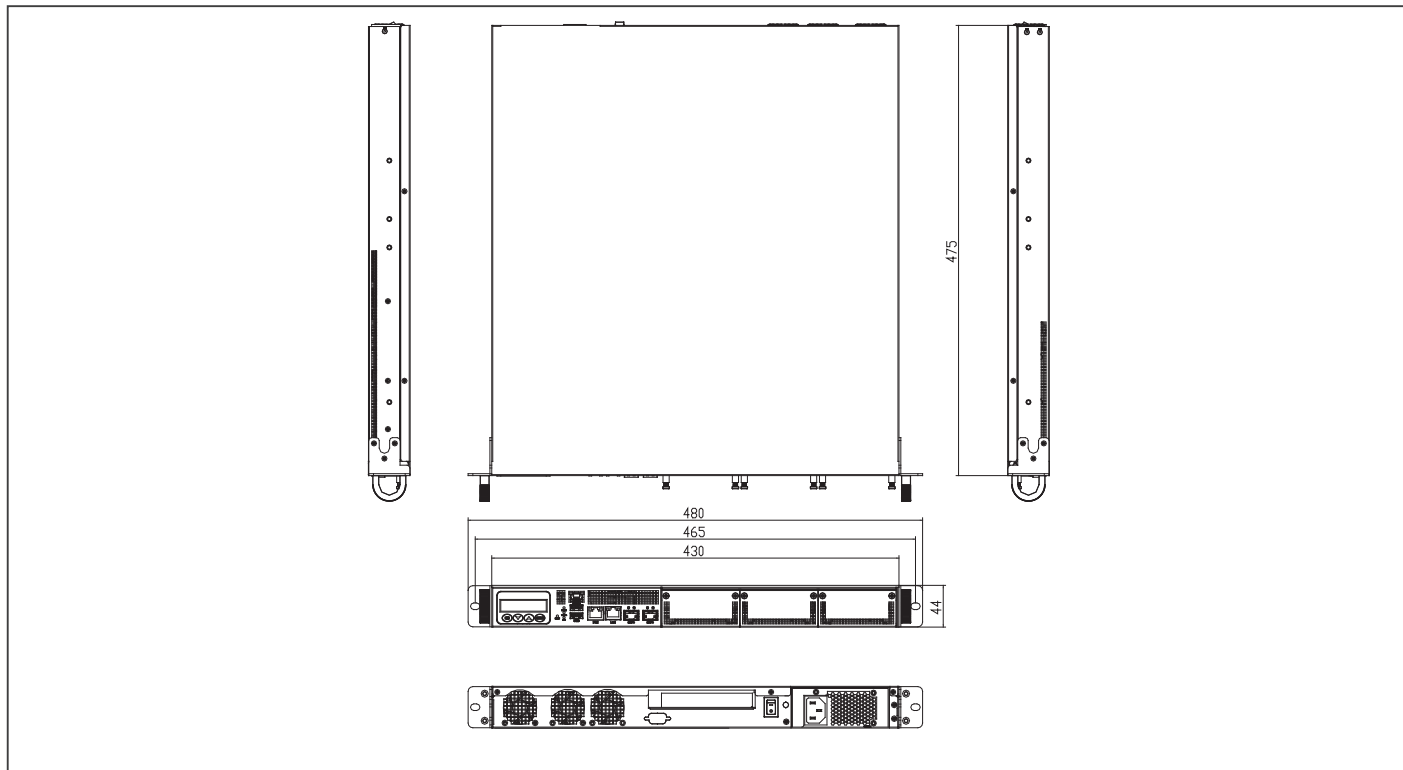
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 1 (Optional PCIe [x4] signal use x8 slot)

Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	Intel® FCBGA Xeon D-1548/D-1518 (Optional) SoC
Chipset	Integrated
System Memory	DDR4 1600/1866/2133 RDIMM/UDIMM/ECC, up to 128GB, 288 Pin DIMM x 4
Network	
Ethernet	Intel® i211, Gigabit Ethernet x 1 Inphi CS4227 phy 10 Gigabit Ethernet x 2 + NIM
Bypass	Depends on NIM
NIM Slot	3
Display	
Graphic Controller	IPMI integrated (Optional)
Connector	—
Storage	
HDDs	2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (optional)
CF/CFast/mSATA	CF socket x 1 (Optional CFast™ socket)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Storage	Display	LAN	USB	Console	Bypass	NIM Slot	Expansion Slot	Mounting	Power
FWS-7520W3-H25-A10-010	Intel® Xeon D-1548 Processor	DDR3 RDIMM or ECC/UDIMM (up to 120GB)	2.5" HDD Bay x 2, CF Slot x 1	—	10G SFP+ x 2 GbE x 1	USB 3.2 Gen 1 X 2	RJ-45 x 1	—	3	PCIe [x8] slot x 1 (optional)	1U rackmount	ATX

Packing List

- Gift Box (Including Console Cable, Ear Brackets)
- FWS-7520

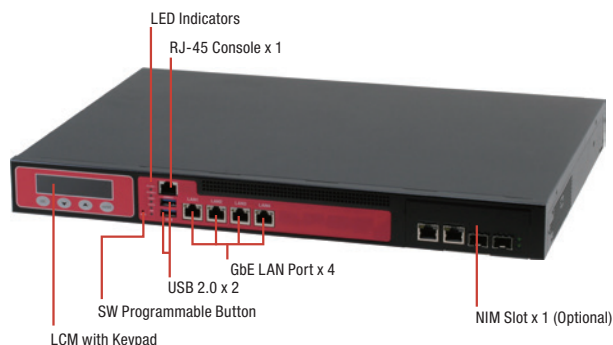
Optional Accessories

- **M02666600**
Slide x 2, for Rackmount Usage
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761EMPV01**
VGA Module for FWS-7520/7350
- **NIM-S26B-A10-F20-0001**
Intel® XL710 PCI Express 40GbE QSFP 2 Ports Module for FWS-7520
- **NIM-S26C-A10-T40-0001**
Intel® XL710 4 x 10GbE SFP+ LAN Module for FWS-7520/7810/7820. Rev. A1.0
- **NIM-S13B-A10-G80-0001**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7520
- **NIM-S13D-A10-G40-0001**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7520
- **NIM-C13B-A10-G82-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7520 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7520 w/ 2Pair bypass
- **NIM-S13E-A10-G82-0001**
LAN Module, Intel® 82580EB, 4 x 1GbE SFP, 2 Bypass, FWS-7520, Rev.A.1.0

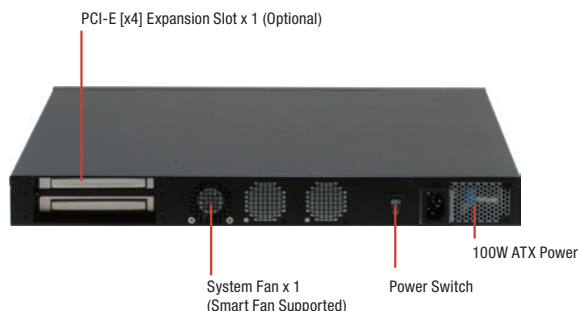
FWS-7350

1U Rackmount 4 LAN Ports Network Appliance with Intel® Atom™ Processor SoC

Front View



Rear View



Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	Onboard Intel® C2758/C2558 4-Core/ 8-Core 2.4 GHz Processor SoC
Chipset	Integrated
System Memory	DDR3L 1600 UDIMM/ECC, up to 64GB, 240-pin DIMM x 4
Network	
Ethernet	Marvell 88E1543 phy Gigabit Ethernet x 4 + NIM
Bypass	2 ~ 4 (Depends on NIM)
NIM Slot	1
Display	
Graphic Controller	Mini-Card VGA (Optional)
Connector	VGA cable (Optional)
Storage	
HDDs	Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2 (Optional)
CF/CFast/mSATA	CF socket x 1

Features

- 1U Rackmount 4 LAN Ports Network Appliance
- Onboard Intel® C2758/C2558 4-Core/ 8-Core 2.4 GHz Processor SoC
- 240-Pin Dual-Channel ECC or non-ECC DDR3(L) 1600 MHz DIMM x 4, Up to 64 GB
- Gigabit Ethernet x 4
- Optional Up to 2 Pairs LAN Bypass Function
- 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2 and CompactFlash™ Socket x 1
- RJ-45 Console x 1, USB 2.0 x 2
- NIM Slot x 1
- Optional PCI-E [x4] x 1
- ATX PSU 100W
- Mini-PCIe Slot x 1



Internal/ Expansion Interface

PCIe slot	PCIe [x4] signal use [x8] slot
Mini-Card slot	Mini Card x 1
IPMI	—
Keyboard and Mouse	Pin-header
USB	USB 2.0 x 1 Box Header (2.0mm) (optional)

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	—
GPIO	—
FAN	1
MTBF (Hours)	109,000
Color	Black

Environmental Parameters and Dimension

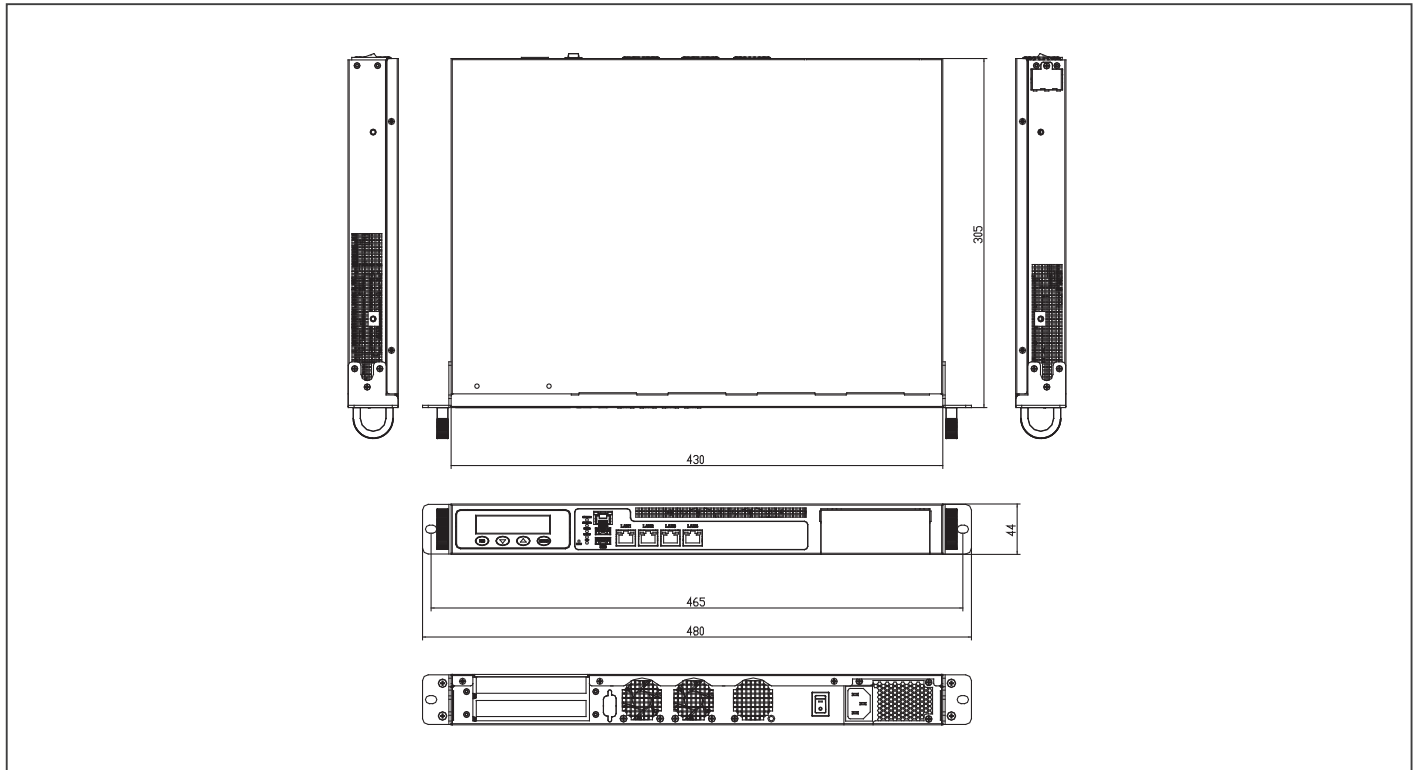
Power Requirement	100W ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80%
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	16.93" x 12.01" x 1.73" (430mm x 305mm x 44mm)

I/O Interfaces

Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN ports Link/Active LED x 4 Bypass LED (Default 2 LEDs) USB 2.0 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 2 (Optional PCIe [x4] signal use x8 slot)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Storage	Display	LAN	USB	Console	Bypass	*NIM Slot	**Expansion Slot	Mounting	Power
FWS-7350E4-H10-A10-000	Onboard Intel® C2758 8 Core™ 2.4 GHz Processor SoC	DDR3L ECC/UDIMM (Up to 64GB)	2.5" HDD Bay x 2	—	GbE x 4	USB 2.0 x 2	RJ-45 x 1	2	1 (Note 1)	PCIe [x8] slot x 1 use x4 signal (Optional) (Note 2)	1U Rackmount	ATX
FWS-7350E4-H10-A10-001	Onboard Intel® C2558 4 Core™ 2.4 GHz Processor SoC	DDR3L ECC/UDIMM (Up to 64GB)	2.5" HDD Bay x 2	—	GbE x 4	USB 2.0 x 2	RJ-45 x 1	2	1 (Note 1)	PCIe [x8] slot x 1 use x4 signal (Optional) (Note 2)	1U Rackmount	ATX

*Note 1: Need to configure riser card and module

**Note 2: Need to configure riser card

Packing List

- Gift Box (Including Console Cable, Ear Brackets)
- FWS-7350

Optional Accessories

- **M02666600**
Slide x 2, for Rackmount Usage
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-250V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761EMPV01**
VGA Cable for FWS-7520/7350
- **PER-T281-A10-01**
PER-T281, Riser Card for NIM
- **PER-T282-A10-00**
PER-T282, Riser Card for PCI-E [x8] Expansion
- **PER-C35L-A10-00**
Fiber Module Intel® 82599, 10 GbE x 2, Rev. A1.0
- **PER-C36L-A10-01**
Fiber Module Intel® i210.1 GbE x 2, Rev. A1.0
- **PER-C36L-A10-02**
PCI-Express Gigabit Ethernet Module w/ Intel® i210 Controller, 4 Fiber GbE
- **PER-C38L-A10-02**
LAN Module Intel® 82580EB 1GbE x 8, 4 pairs Bypass, Rev. A1.0
- **PER-C39L-A10-01**
LAN Module Intel® 82580EB 1GbE x 8, Rev. A1.0
- **PER-C38L-A10-02**
LAN Module Intel® 82580EB 1GbE x 8, 4 pairs Bypass, Rev. A1.0
- **PER-C40L-A10-01**
LAN Module Intel® 82580EB 1GbE x 4, Rev. A1.0
- **PER-C41L-A10-01**
LAN Module Intel® 82580EB 1GbE x 4, 2 pairs Bypass, Rev. A1.0

FWS-8600

2U Rackmount Intel® 8th Generation Platform Network Appliance

Front View



Rear View



Specifications

System	
Form Factor	2U Rackmount Network Platform
Processor	Dual Intel® Xeon® Processor Skylake-SP & Cascade Lake-SP processor
Chipset	Intel®C621
System Memory	DDR4 2133/2400/2666 R-DIMM, Up to 512 GB
Network	
Ethernet	Intel® i211 Gigabit Ethernet x 2
Bypass	Depend on NIM module
NIM Slot	NIM x 8
Display	
Graphic Controller	—
Connector	VGA Option

Features

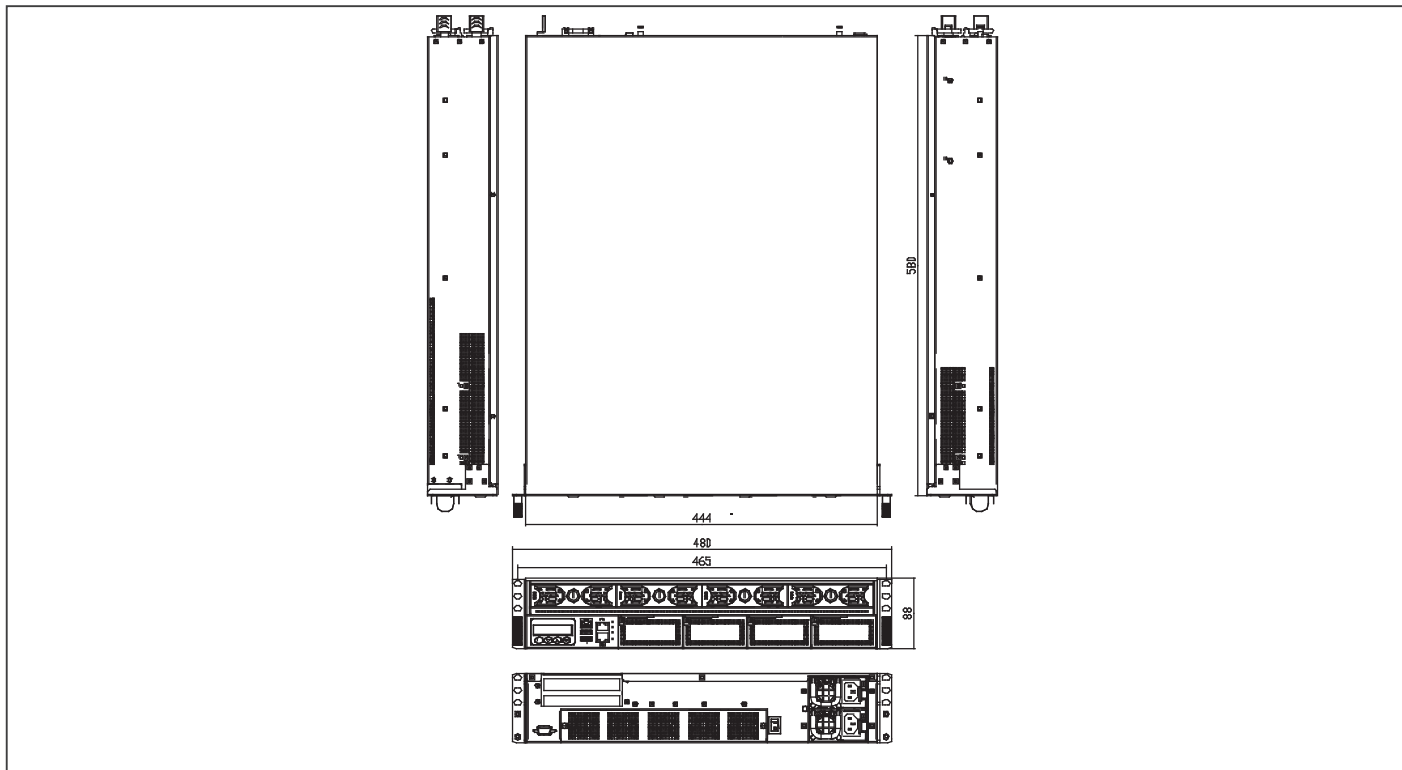
- 2U Rackmount Network Appliance
- Dual Intel® Xeon® Processor Skylake-SP & Cascade Lake-SP processor
- Intel® Communications Chipset C621
- DDR4 2133/2400/2666 MHz DIMM (8 DIMM Per CPU) RDIMM x 16, Up to 512 GB
- IPMI Support by Aaeon Module
- Up to 64 Gigabit Ethernet Ports Via NIM
- Internal 2.5" HDD x 2 or 3.5" HDD x 1 Option, M.2 x 1
- Parallel LCM with Keypad x 1
- RJ-45 Console x 1, USB 3.2 Gen 1 x 2, 1 GbE LAN x 2
- 550W ~ 600W Redundant Power



Storage	
HDDs	Internal 2.5" HDD x 2 or 3.5" HDD x 1 Option, M.2 x 1
CF/CFast/mSATA	(mSATAx1 Optional ,cant use with minicard)
Internal/ Expansion Interface	
PCIe slot	(PCIe [x16] slots x 2 Optional) M.2 Slot (2260 M Key) x 1
Mini-Card slot	Mini Card x 1
IPMI	IPMI Support optional module
Keyboard and Mouse	—
USB	USB 3.2 Gen 1 x 2/ (USB 3.2 Gen 1 x 2 ,Box Header 2.0mm optional)
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	TPM2.0 9665 (TPM v1.2 9660 optional)
GPIO	(4 bits input, 4 bits output optional)
FAN	5
MTBF (Hours)	TBD
Color	Black
Environmental Parameters and Dimension	
Power Requirement	550 ~ 600W Redundant Power
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	17.48" x 22.83" x3.46" (444mm x 580mm x 88mm)
I/O Interfaces	
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Button x1 RJ-45 LAN x 2
Rear Panel	AC Power Input x 2, Power Switch x 1, VGA port (Optional), Rear Expansion Slot x 2 (PCIe [x16] Optional)

Dimension

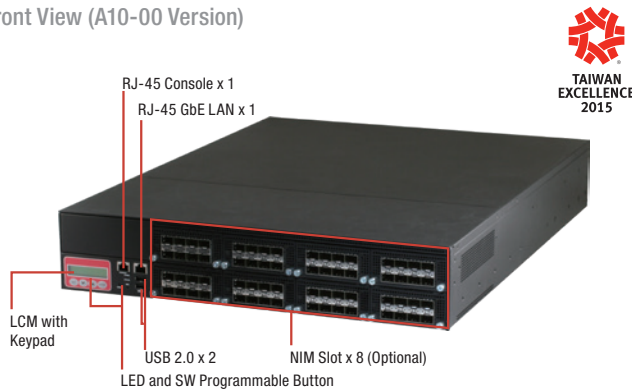
Unit: mm



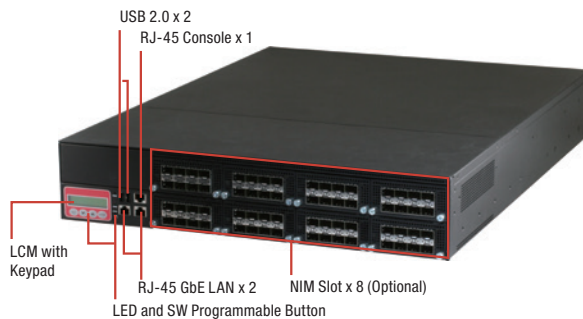
FWS-8500

2U Rackmount High Performance Network Appliance, up to 64 Gigabit Ethernet Ports

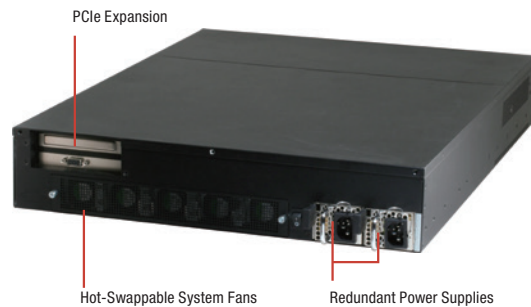
Front View (A10-00 Version)



Front View (A10-01 Version)



Rear View



Features

- 2U Rackmount Network Appliance
- Dual Intel® Xeon® Processor E5-2600 v3 Series Processor, LGA 2011
- Intel® Communications Chipset 8925
- 288-pin DDR4 1600/1866/2133 MHz DIMM (8 DIMM Per CPU) RDIMM x 16, Up to 512 GB
- 64 Ports Gigabit Ethernet Via NIM
- Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2, CompactFlash™ Socket x 1
- Optional Parallel LCM with Keypad x 1
- RJ-45 Console x 1, USB 2.0 x 2, 1 GbE LAN x 1
- 650W Redundant Power
- Mini-PCIe x 1, PCI-E [x8] x 2 (Optional)



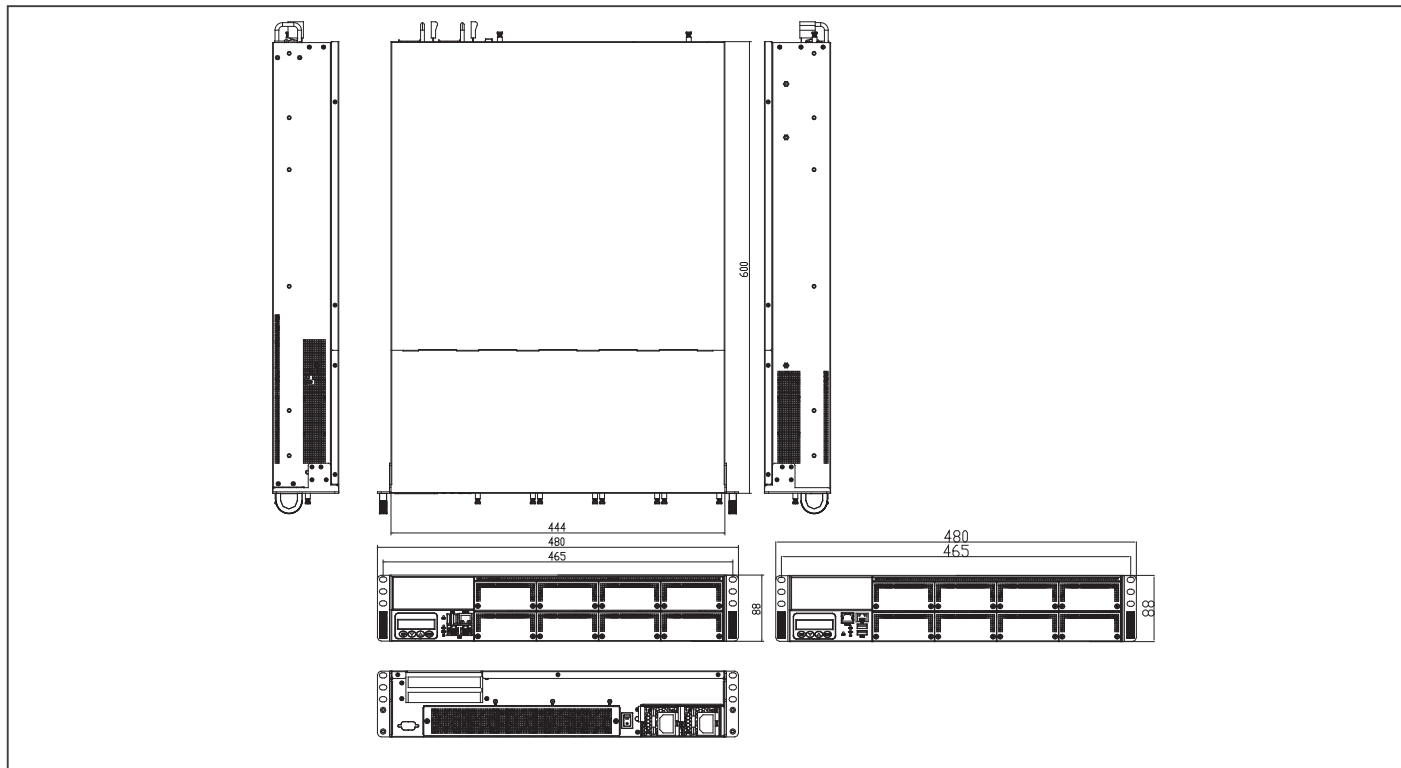
Storage	
HDDs	Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD
CF/CFast/mSATA	CF socket x 1
Internal/ Expansion Interface	
PCIe slot	PCIe [x8] slot x 2 (Optional)
Mini-Card slot	1
IPMI	—
Keyboard and Mouse	—
USB	USB 2.0 x 2 pin-header (optional)
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	TPM v1.2 (TPM v2.0 Optional)
GPIO	4 bits input, 4bits output
FAN	5
MTBF (Hours)	72,211
Color	Black
Environmental Parameters and Dimension	
Power Requirement	650W Redundant PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	17.48" x 23.62" x 3.46" (444mm x 600mm x 88mm)
I/O Interfaces	
Front Panel	Power LED x 1, Status LED x 1, HDD Active LED x 1, USB 2.0 Ports x 2, RJ-45 Console x 1, Parallel LCM display and 4 keypad x 1, Software Programmable Button x 1 RJ-45 LAN x 1 (optional up to RJ-45 LAN x 2)
Rear Panel	AC Power Input x 2, Power Switch x 1, Rear Expansion Slot x 2 (Optional PCIe [x8])

Specifications

System	
Form Factor	2U Rackmount Network Platform
Processor	Intel® Xeon® Processor E5-2600 v3 / v4 Series, FCLGA2011
Chipset	Intel® Communications Chipset 8925 PCH
System Memory	DDR4 2133/2400/2666 RDIMM, Up to 512 GB, 288-Pin DIMM x 16 (8 DIMM Per CPU)
Network	
Ethernet	Depends on NIM, onboard (GbE LAN x 2)
Bypass	Depends on NIM module
NIM Slot	8
Display	
Graphic Controller	Mini-Card VGA (Optional)
Connector	VGA cable (Optional)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Cooler	Storage	Display	LAN	USB	Console	RS-232	KB/MS	Bypass	NIM Slot	Expansion Slot	Mounting	Power
FWS-8500S1-R65-A10-01	Intel® Xeon® Processor E5-2600 v3 / v4 Series, FCLGA2011	DIMM, Up to 512 GB	System fan x 5	3.5" HDD Bay x 1 CompactFlash™ Socket x 1	—	GbE x 2	USB 2.0 x 2	RJ-45 x 1	—	—	—	8	PCI-E[x8] slot x 2 (Optional) Mini-PCIe slot x 1	2U Rackmount	650W Redundant Power

Packing List

- Gift Box (Including Console Cable x 1, SATA Cable x 1, SATA Power Cable x 1, and Ear Bracket Kit x 1)
- CPU Cooler x 2
- FWS-8500

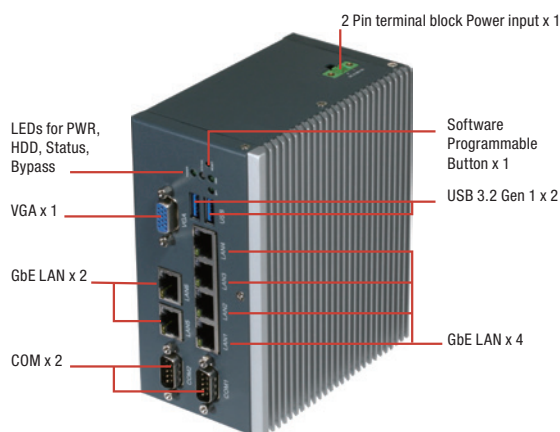
Optional Accessories

- **M028500000**
Slide x 2, Chassis Rail Kit
- **976185000E**
VGA Module, PER-V09V, No Packing
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **NIM-S26A-A10-01**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-8500
- **NIM-S26B-A10-01**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-8500
- **NIM-S13A**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module
- **NIM-C13A-A10-00**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module

ICS-6270

DIN Rail 6 LAN Ports Industrial-Grade Network Appliance with Intel® Celeron® N3350 Processor SoC

Front View



Rear View



Features

- Intel® Celeron® Processor N3350 SoC
- 204-pin Dual Channel DDR3L 1866 MHz SODIMM x 1 up to 8GB
- 10/100/1000Base-TX Ethernet Port x 6 (Supports up to 2 Pairs bypass)
- Supports up to Mini-Card Socket with SIM Socket x 1
- +9 ~ 36V DC Power Input Terminal Block
- Supports up to RS-232/422/485 COM Port x 2 with ESD Protection
- -40°C~75°C Operating Temp.



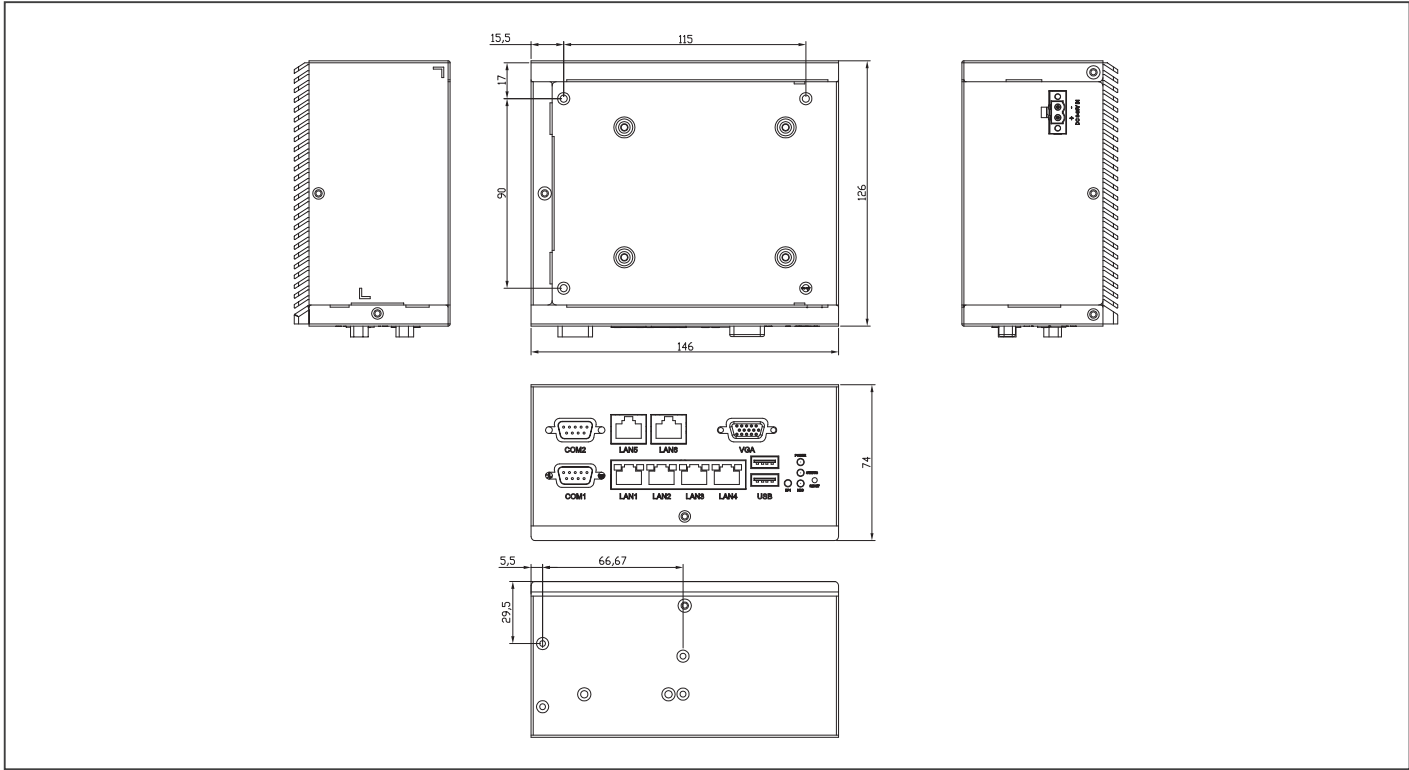
System Fan	Fanless
Color	Dark Grey
Power Supply	2 Pin Terminal Block
Dimension	4.96" x 2.93" x 5.74" (126 x 74.5 x 146mm)
Power Requirement	+9 ~ 36V, 2-pin terminal block
MTBF (Hours)	101,292
Display	
Chipset	Intel® HD Graphics 500
Interface	VGA port x 1
I/O	
Front I/O Panel	RJ-45 GbE x 6 RS-232/422/485 COM Port x 2 VGA port x 1 USB 3.2 Gen 1 x 2 Software programmable button x 1 Power LED x 1 HDD LED x 1 Status LED x 1 Bypass LED x 2
Rear I/O Panel	DIN Rail/ Wallmount Lock
Top Panel	2-Pin Terminal Block +9~36VDC x 1
Environmental Parameters and Dimension	
Operating Temperature	-40°F ~ 156°F (-40°C ~ 75°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 80% @40°C; non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz / operation (SSD) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation

Specifications

System	
Form Factor	DIN Rail/ Desktop
Processor	Intel® Celeron® Processor N3350 SoC
System Memory	204-pin DDR3L 1866MHz x 1, SODIMM Up to 8GB
Chipset	—
Ethernet	Intel® i211, Gigabit Ethernet x 6
Bypass	Supports up to 2 pairs
BIOS	AMI SPI Flash BIOS
Serial ATA	SATA 6.0 Gb/s port x 1, for 2.5" HDD/SSD
CFast/mSATA	CFast™ socket x 1 (co-lay mSATA)
Expansion Interface	Supports Mini-Card slot x 1 with SIM socket
USB	USB 3.2 Gen 1 x 2
Serial Port	Supports up to RS-232/422/485 COM Port x 2
Watchdog Timer	1~255 steps by software programmable
RTC	Internal RTC

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Bypass	Mini-Card Slot	Storage	LAN	USB	RS-232/422/485	System Fan	TPM	Display	Mounting	Power
ICS-6270A-A10-00	Intel® Celeron® N3350	204-pin DDR3L SODIMM socket x 1	1 Pair	Full Size and SIM socket x 1	CFast socket x 1 SATA 6.0 Gb/s port x 1	6	USB 3.2 Gen 1 x 2	COM x 2 COM2 with isolation	1	Optional, default N/A	VGA x 1	DIN Rail	+9~36V DC In

Packing List

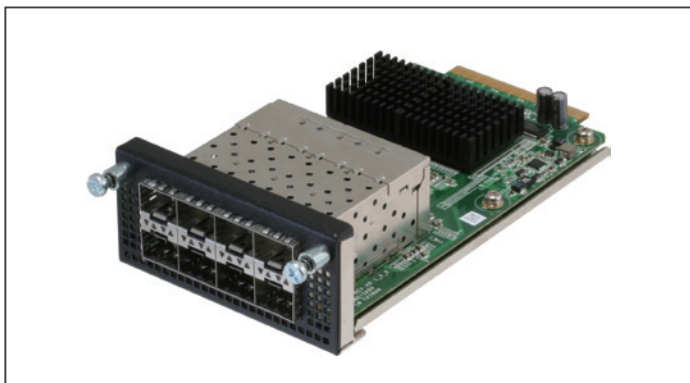
- 2 Pin Phoenix Contact Connector (Male)
- SATA Cable x 1
- SATA Power Cable x 1
- DIN Rail Kit x 1
- ICS-6270

Optional Accessories

- 9761627020
Wallmount Kit (No Packing)
- 1255300407
2 Pin Phoenix Contact 40W Power Adapter

NIM-S13A

Intel® 82580EB PCI-Express 1G SFP 8 Ports Module



Specifications

Main Specification	
Form Factor	1G LAN Module
Main Chipset	Intel® 82580EB Ethernet Controller x 2
Bypass	—
Host Interface	PCI-Express [x8] (x4 + x4)
LAN Port	SFP 1 GbE Connector x 8
Indicator	—
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interfaces
- 10/100/1000Base-TX Fiber SFP x 8



Network Appliance Options

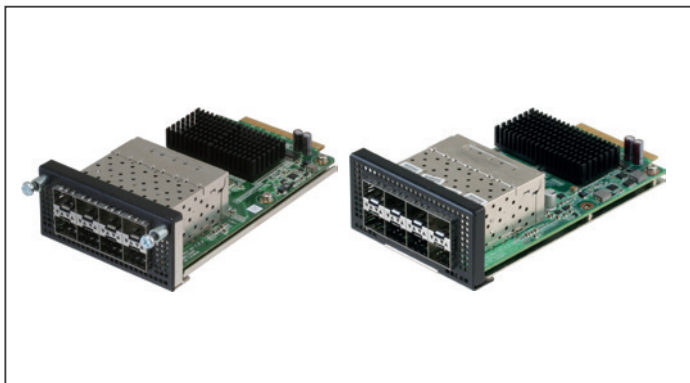
- FWS-8500

Ordering Information

- **NIM-S13A**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module

NIM-S13B

Intel® 82580EB PCI-Express 1G SFP 8 Ports Module



Specifications

Main Specification	
Form Factor	1G Fiber Module
Main Chipset	Intel® 82580EB Ethernet Controller x 2
Bypass	—
Host Interface	PCI-Express [x4]
LAN Port	SFP 1GbE Connector x 8
Indicator	LED x 8 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

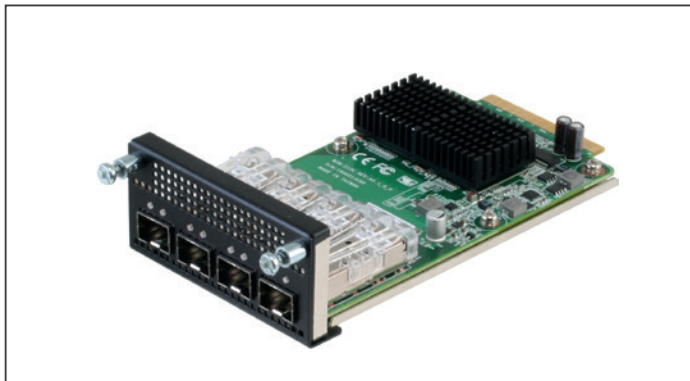
- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600

Ordering Information

- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820/7821/7830/7831/8600/7360
- **NIM-S13B-A10-G80-0001**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7520

NIM-S13C

Intel® 82580DB PCI-Express 1G SFP 4 Ports Module



Specifications

Main Specification	
Form Factor	1G Fiber Module
Main Chipset	Intel® 82580DB Ethernet Controller x 2
Bypass	—
Host Interface	PCI-Express [x8] (x4 + x4)
LAN Port	SFP 1GbE Connector x 4
Indicator	LED x 4 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

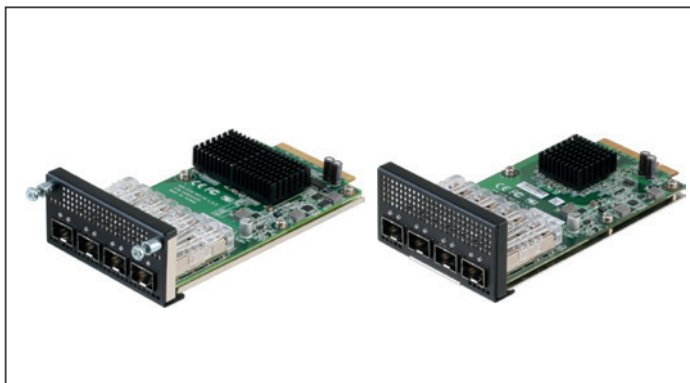
- FWS-8500

Ordering Information

- **NIM-S13C-A10-G40-001**
Intel® 82580DB PCI-Express 1G SFP 4 Ports Module

NIM-S13D

Intel® 82580EB PCI-Express 1G SFP 4 Ports Module



Specifications

Main Specification	
Form Factor	1G Fiber Module
Main Chipset	Intel® 82580EB Ethernet Controller x 1
Bypass	—
Host Interface	PCI-Express [x4]
LAN Port	SFP 1GbE Connector x 4
Indicator	LED x 4 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

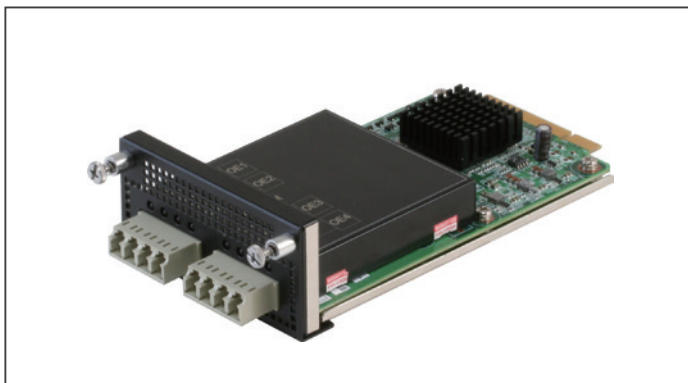
- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600

Ordering Information

- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821/7830/7831/8600/7360
- **NIM-S13D-A10-G40-0001**
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7520

NIM-S13E

Intel® 82580EB PCI-Express 1G Fiber Ethernet 4 Ports Module



Specifications

Main Specification	
Form Factor	1G Fiber Module
Main Chipset	Intel® 82580EB Ethernet Controller x 1
Bypass	2
Host Interface	PCI-Express [x4]
LAN Port	SFP 1GbE Connector x 4
Indicator	LED x 4 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

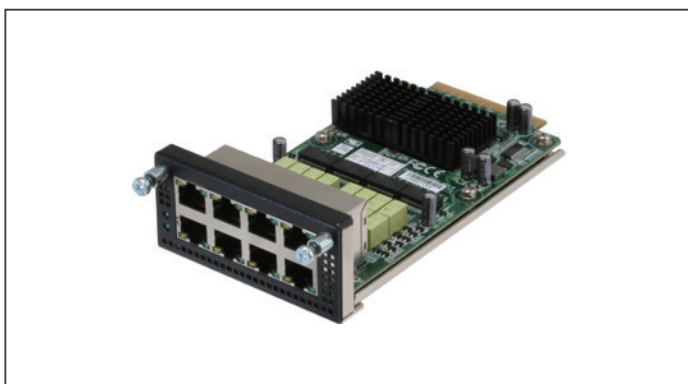
- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600

Ordering Information

- NIM-S13E-A10-G82-0001
LAN Module, Intel® 82580EB, 8 x 1GbE SFP, 2 Bypass, FWS-7520, Rev. A.1.0
- NIM-S13E-A10-G82-0002
LAN Module, Intel® 82580EB, 8 x 1GbE SFP, 2 Bypass, FWS-7820/7821/7830/7831/8600/7360, Rev. A.1.0
- NIM-S13E-A10-G82-0003
LAN Module, Intel® 82580EB, 4 x 1GSFP, 2 Bypass, FWS-7810/7811, REV. A1.0

NIM-C13A

Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module



Specifications

Main Specification	
Form Factor	1G LAN Module
Main Chipset	Intel® 82580EB Ethernet Controller x 2
Bypass	2
Host Interface	PCI-Express [x8] (x4 + x4)
LAN Port	1GbE Connector x 8
Indicator	LED x 8 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

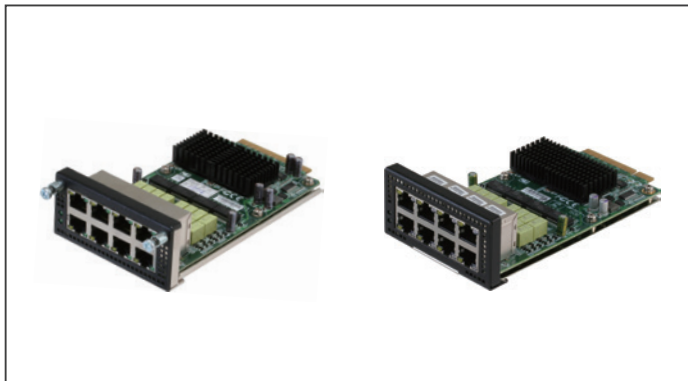
- FWS-8500

Ordering Information

- NIM-C13A-A10-00
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module

NIM-C13B

Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module



Specifications

Main Specification	
Form Factor	1G LAN Module
Main Chipset	Intel® 82580EB Ethernet Controller x 2
Bypass	—
Host Interface	PCI-Express [x8] (x4 + x4)
LAN Port	1GbE Connector x 8
Indicator	LED x 8 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

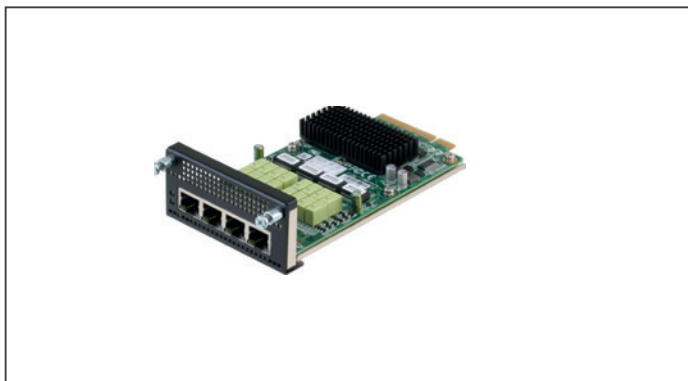
- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600

Ordering Information

- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820/7821/7830/7831/7360/8600 w/ 2Pair bypass
- **NIM-C13B-A10-G82-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7520 w/ 2Pair bypass

NIM-C13D

Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module



Specifications

Main Specification	
Form Factor	1G Copper Module
Main Chipset	Intel® 82580EB Ethernet Controller x 1
Bypass	2
Host Interface	PCI-Express [x4]
LAN Port	1GbE Connector x 4
Indicator	LED x 4 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface



Network Appliance Options

- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600

Ordering Information

- **NIM-C13D-A10-G42-0001**
Intel® 82580EB PCI-Express 1GbE 4 Ports, 2 pairs bypass Module for FWS-7520 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820/7821/7830/7831/7360/8600 w/ 2Pair bypass

NIM-S26A

Intel® XL710 PCI-Express 10G SFP+ 4 Ports Module



Specifications

Main Specification	
Form Factor	10G Fiber Module
Main Chipset	Intel® XL710 Ethernet Controller x 1
Bypass	—
Host Interface	PCI-Express [x8]
LAN Port	SFP+ 10 GbE Connector x 4
Indicator	LED x 4 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interfaces
- 10G SFP+ Fiber Port x 4



Network Appliance Options

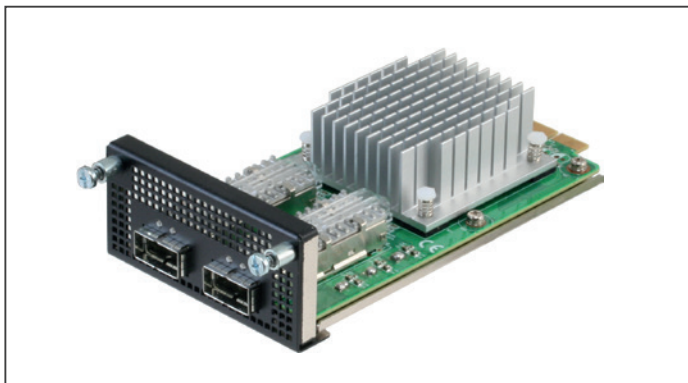
- FWS-8500

Ordering Information

- **NIM-S26A-A10-01**
Intel® XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-8500

NIM-S26B

Intel® XL710 PCI-Express 40G QSFP 2 Ports Module



Specifications

Main Specification	
Form Factor	40G Fiber Module
Main Chipset	Intel® Fortville XL710 Ethernet Controller x 1
Bypass	—
Host Interface	PCI-Express [x8]
LAN Port	QSFP 40GbE Connector x 2
Indicator	LED x 2 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interface
- 40 GbE QSFP Fiber Port x 2



Network Appliance Options

- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600
- FWS-8500

Ordering Information

- **NIM-S26B-A10-01**
Intel® XL710 PCI Express 40GbE QSFP 2 Ports Module for FWS-8500
- **NIM-S26B-A10-F20-0001**
Intel® XL710 PCI Express 40GbE QSFP 2 Ports Module for FWS-7520
- **NIM-S26B-A10-F20-0002**
Intel® XL710 PCI Express 40GbE QSFP 2 Ports Module for FWS-7820/7821/7830/7831/7360/8600



Specifications

Main Specification	
Form Factor	10G Fiber Module
Main Chipset	Intel® XL710 Ethernet Controller x 1
Bypass	—
Host Interface	PCI-Express [x8]
LAN Port	SFP+ 10 GbE Connector x 4
Indicator	LED x 4 for Active/Link
Qualification	CE/FCC Class A
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Dimension	5.71" x 3.03" (145mm x 77mm)

Features

- PCI-Express Host Interfaces
- 10G SFP+ Fiber Port x 4



Network Appliance Options

- FWS-7360
- FWS-7830
- FWS-7831
- FWS-7821
- FWS-7820
- FWS-7520
- FWS-8600

Ordering Information

- **NIM-S26C-A10-T40-0001**
LAN Module, Intel® XL710, 10 GbE SFP+ x 4, FWS-7520, Rev. A.1.0
- **NIM-S26C-A10-T40-0002**
LAN Module, Intel® XL710, 10 GbE SFP+ x 4, FWS-7820/7821/7830/7831/7360/8600, Rev. A.1.0

Turn-Key Chassis Solutions

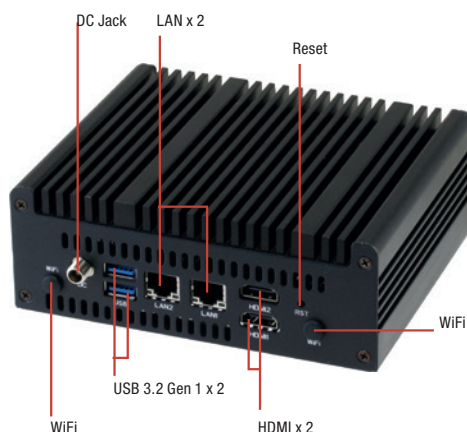
16



NANO-002N

Fanless Mini PC with 6th Generation Intel® 15W Processor, 2 HDMI and 2 LAN Ports

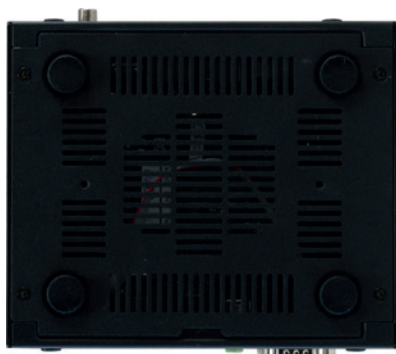
Front View



Rear View



Bottom View



Features

- 6th Generation Intel® 14nm ULT Core™ i7/i5/i3/Celeron® 15W BGA Processor
- Dual Gigabit Ethernet
- Dual HDMI Ports
- USB 3.2 Gen 1 Port x 4
- Fanless Solution

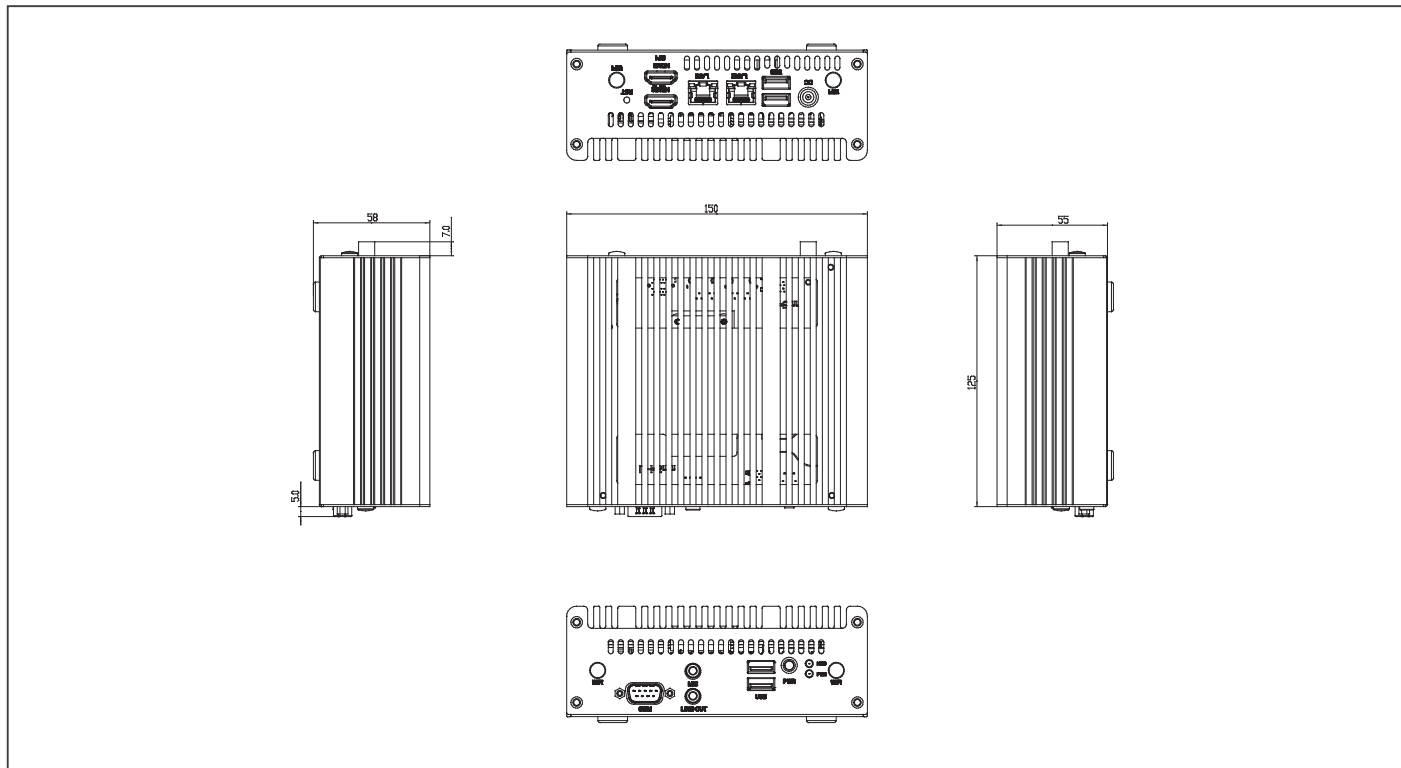


Specifications

System	
CPU	6th gen. Intel® 14nm ULT Core™, BGA CPU, 15W TDP. i7-6600U 2C/4T GT2 2.6/3.4 GHz 4M/ i5-6300U 2C/4T GT2 2.4/3.0 GHz 3M/ i3-6100U 2C/4T GT2 2.3 GHz 3M/ Celeron® 3955U 2C/2T GT1 (f) 2.0 GHz 2M
Chipset	Integrated into SoC
System Memory	SODIMM x 2, max. 32 GB, DDR4 2133/1867 MHz non-ECC, un-buffered memory
I/O Chipset	NCT5538D
Storage Devices	M.2 2280 M-Key slot (PCIe[x4]+SATA) x 1
Ethernet	Realtek® 8111G10/100/1000Mb LAN x 2, RJ-45 x 2
Audio	Realtek® ALC887
TPM	—
Expansion Slots	M.2 2230 E-Key slot (PCIe+USB) x 1
BIOS	128Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	Chassis Fan
Wake On LAN / PXE	Yes (WOL / PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Integrated Graphics
Resolution	HDMI 1.4 up to 4096 x 2160@24Hz
Brightness Control	—
Graphics Multi Display	HDMI+HDMI
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	DC Power x 1 (DC: 12V~19V, wide range:12V-5%~ 19V+10%)
Operating Temperature	FANLESS : 0°C~40°C
Operating Humidity	20%~90%RH, non-condensing
Certificate	CE & FCC class A
Form Factor	NANO ITX: 4.72" x 4.72" (120mm x 120mm)
Weight	—
Front I/O	
USB	USB 3.2 Gen 1 port x 2
Audio	Audio Jack x 2: Line-out (green), Mic-in (pink)
Serial port	COM port RS-232
Power	On/Off Button x 1
Others	Power LED + HD LED x 1
Rear I/O	
USB	USB 3.2 Gen 1 port x 2
Display I/O	HDMI Connector x 2
LAN I/O	RJ-45 Connector x 2
Others	Reset Button x 1, DC Power Jack x 1
Internal I/O	
Storage	M.2 2280 M-Key slot x 1
FAN	Chassis Fan connector x 1 (3-pin, p=2.00mm)
Others	Reset Switch 2-pin header x 1, power button 2-pin header x 1, M.2 2230 E-Key slot x 1
Operating System	
OS	Windows® 7 32 bit, Windows® 7 64 bit, Windows® 8.1 64 bit, Windows® 10 64 bit, Linux Fedora® 22 (64b)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM Module	Display	Cooler	Storage	LAN	USB	Serial Port	Expansion Slot	Power	Mounting
NANO-002N-3955-01	Celeron® 3955U 2.0G/2M	—	HDMI x 2	Fanless	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount
NANO-002N-6100-01	i3-6100U 2.3G/3M	—	HDMI x 2	Fanless	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount
NANO-002N-6300-01	i5-6300U 2.4G/3M	—	HDMI x 2	Fanless	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount
NANO-002N-6600-01	i7-6600U 2.6G/4M	—	HDMI x 2	Fanless	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount

Packing List

- VESA Mount Kit
- NANO-002N

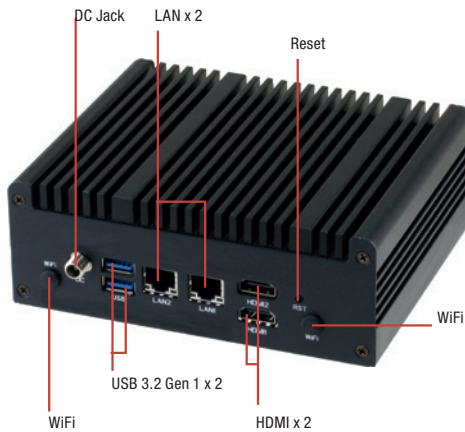
Optional Accessories

- **1702031802**
Power Cord (US & Taiwan Type)
- **1702031803**
Power Cord (European Type)
- **170203180B**
Power Cord (China Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255300607**
60W Power Adapter
- **968C064G2X**
M.2 2280 64GB SSD
- **968C128G1G**
M.2 2280 128GB SSD

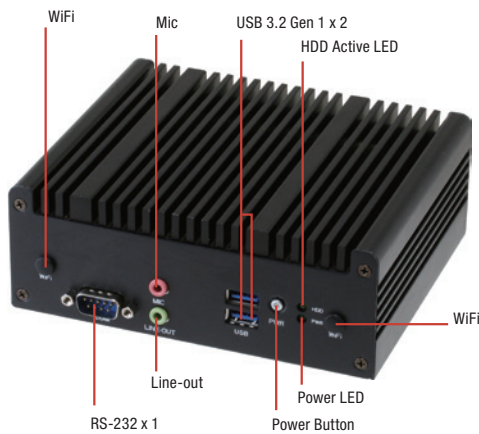
NANO-002F

Mini PC with 6th Generation Intel® Core™ i7/i5/i3/Celeron 15W Processor, 2 HDMI, 2 LAN Ports, COM Port and 4 USB Ports

Front View



Rear View



Bottom View



Features

- 6th Generation Intel® 14nm ULT Core™ i7/i5/i3/Celeron® 15W BGA Processor
- Dual Gigabit Ethernet
- Dual HDMI Ports
- USB 3.2 Gen 1 Port x 4

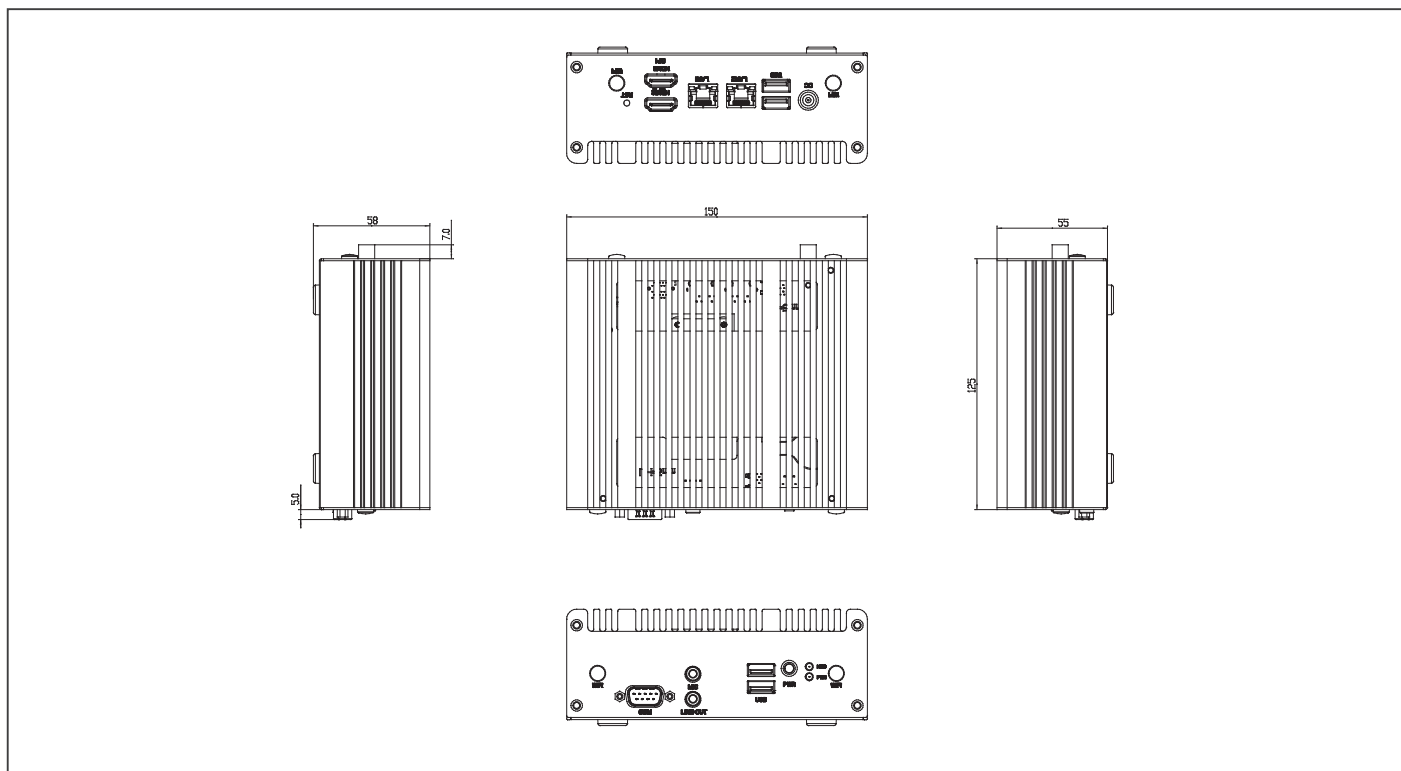


Specifications

System	
CPU	6th gen. Intel® 14nm ULT Core™, BGA CPU, 15W TDP. i7-6600U 2C/4T GT2 2.6/3.4 GHz 4M/ i5-6300U 2C/4T GT2 2.4/3.0 GHz 3M/ i3-6100U 2C/4T GT2 2.3 GHz 3M/ Celeron® 3955U 2C/2T GT1 (f) 2.0 GHz 2M
Chipset	Integrated into SoC
System Memory	SODIMM x 2, max. 32 GB, DDR4 2133/1867 MHz non-ECC, un-buffered memory
I/O Chipset	NCT5538D
Storage Devices	M.2 2280 M-Key slot (PCIe[x4] + SATA) x 1
Ethernet	Realtek® 8111G 10/100/1000Mb LAN x 2, RJ-45 x 2
Audio	Realtek® ALC887
TPM	—
Expansion Slots	M.2 2230 E-Key slot (PCIe+USB) x 1
BIOS	128M bit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	Chassis Fan
Wake On LAN / PXE	Yes (WOL / PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Integrated Graphics
Resolution	HDMI 1.4 up to 4096 x 2160@24Hz
Brightness Control	—
Graphics Multi Display	HDMI + HDMI
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	DC Power x 1 (DC: 12V~19V, wide rage:12V-5%~ 19V+10%)
Operating Temperature	FAN: 0°C ~ 50°C
Operating Humidity	20%~90%RH, non-condensing
Certificate	CE & FCC class A
Form Factor	NANO ITX: 4.72" x 4.72" (120mm x 120mm)
Weight	—
Front I/O	
USB	USB 3.2 Gen 1 port x 2
Audio	Audio Jack x 2 : Line-out (green), Mic-in (pink)
Serial port	COM port RS-232
Power	On/Off Button x 1
Others	Power LED x 1 + HD LED
Rear I/O	
USB	USB 3.2 Gen 1 port x 2
Display I/O	HDMI Connector x 2
LAN I/O	RJ-45 Connector x 2
Others	Reset Button x 1, DC Power Jack x 1
Internal I/O	
Storage	M.2 2280 M-Key slot x 1
FAN	Chassis Fan connector x 1 (3-pin, p=2.00mm)
Others	Reset Switch 2-pin header x 1, power button 2-pin header x 1, M.2 2230 E-Key slot x 1
Operating System	
OS	Windows® 7 32 bit, Windows® 7 64 bit, Windows® 8.1 64 bit, Windows® 10 64 bit, Linux Fedora® 22 (64b)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM Module	Display	Cooler	Storage	LAN	USB	Serial Port	Expansion Slot	Power	Mounting
NANO-002F-3955-01	Celeron® 3955U 2.0G/2M	—	HDMI x 2	Fan	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount
NANO-002F-6100-01	I3-6100U 2.3G/3M	—	HDMI x 2	Fan	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount
NANO-002F-6300-01	I5-6300U 2.4G/3M	—	HDMI x 2	Fan	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount
NANO-002F-6600-01	I7-6600U 2.6G/4M	—	HDMI x 2	Fan	—	GbE x 2	USB 3.2 Gen 1 Port x 4	RS-232 Port x 1	M.2 2280 x 1	DC12-19V	VESA mount

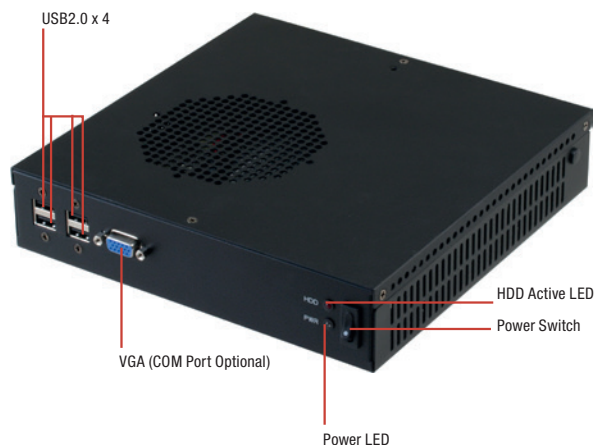
Packing List

- VESA Mount Kit
- NANO-002F

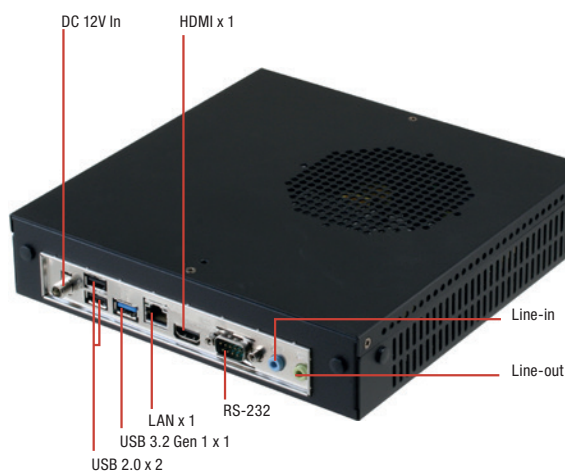
Optional Accessories

- **1702031802**
Power Cord (US & Taiwan Type)
- **1702031803**
Power Cord (European Type)
- **170203180B**
Power Cord (China Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255300607**
60W Power Adapter
- **968C064G2X**
M.2 2280 64GB SSD
- **968C128G1G**
M.2 2280 128GB SSD

Front View



Rear View



Features

- Intel® Atom™ J1900/ N2807 Processor
- DDR3L 1333 SODIMM x 2, Up to 16GB (J1900), DDR3L 1333 SODIMM x 1, Up to 4GB (N2807)
- Dual Independent Display: VGA + HDMI
- Rich IO Supported: USB 3.2 Gen 1 x 1, USB 2.0 x 4~7
- Compact Size, Low Power & Fanless Solution

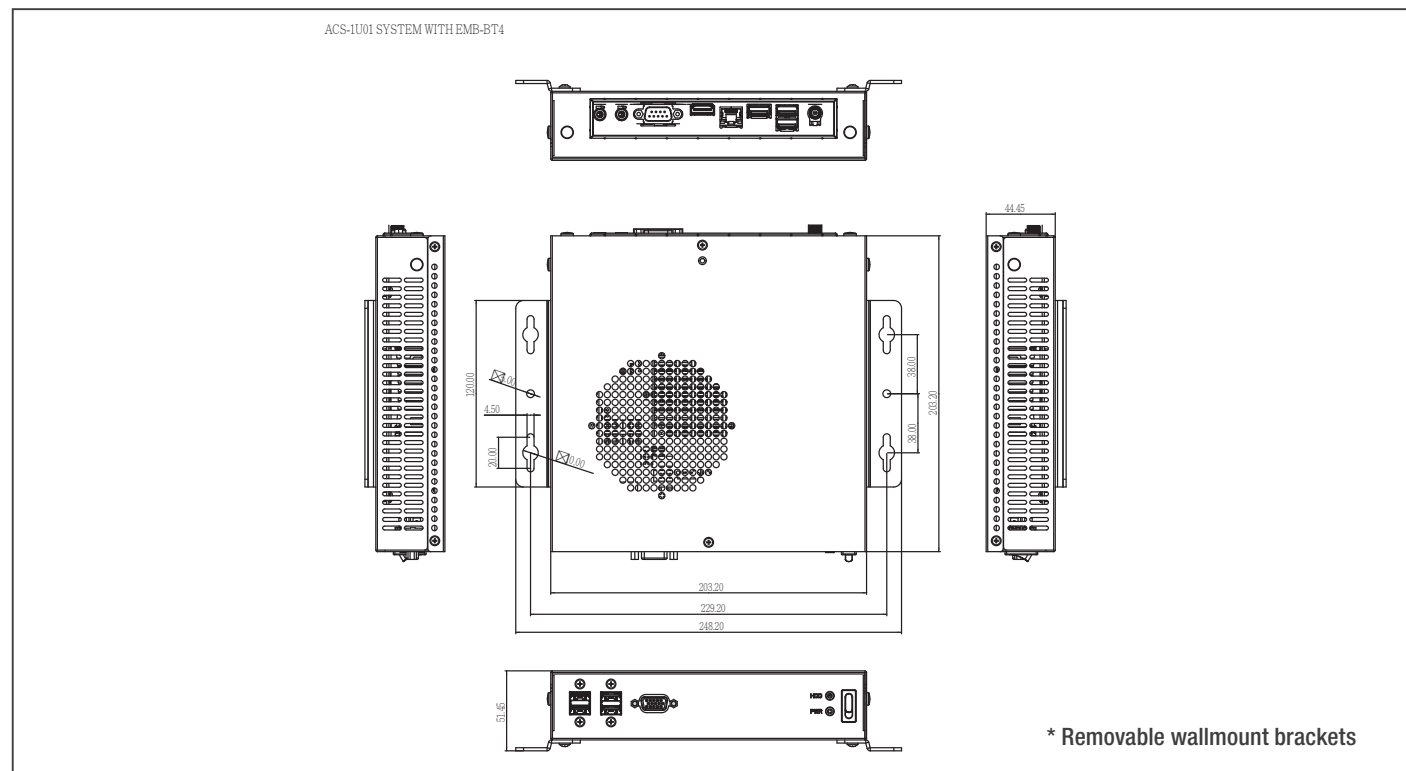


Specifications

System	
CPU	Intel® Atom™ J1900 Processor (4C @ 2.00 GHz CPU, 688/854 MHz GFX, 10W TDP), Intel® Atom™ N2807 Processor (2C @ 1.58 GHz CPU, 313/750 MHz GFX, 4.3W TDP)
Chipset	—
System Memory	204-pin SODIMM x 2 up to 8 GB (for J1900) 204-pin SODIMM x 1 up to 4 GB (for N2807) DDR3L 1333 MHz, Non-ECC, un-buffered memory, Dual-channel memory architecture
I/O Chipset	Fintech 81866D
Display Interface	Chipset Intel® Graphics Media Accelerator
	DP VGA x 1, Up to 1920 x 1200 @60 Hz ; HDMI x 1, Up to 1920 x 1200 @60 Hz
Storage Devices	2.5" HDD, Full-Size Mini-Card (optional)
Network	LAN Realtek® PCIe Gb LAN 8111G x 1
I/O	
Front I/O	USB USB 2.0 port x 4
	Audio —
	Display VGA x 1
	Others On/Off Button x 1, Power LED + HD LED x 1, (COM port optional if not use VGA port)
Rear I/O	USB USB 3.2 Gen 1/2.0 port x 1, USB 2.0 port x 2
	Audio Line-out (green) x 1, Line-in (blue) x 1
	Display HDMI x 1
	LAN RJ-45 connector x 1
	Power DC Power x 1
Expansion	Others RS-232 connector x 1
	Mini PCIe Full-size Mini-Card (PCIe +USB or mSATA) + SIM Card (mSATA default) x 1, Half-size Mini-Card (PCIe +USB) x 1
	Storage Full-size Mini-Card slot (mSATA default) x 1, SATA3 (6.0Gb/s) x 1, SATA2 (3.0Gb/s) x 1, SATA power connector x 1
	Others RS-232 9-pin int. box header x 1, RS-232/422/485 9-pin box header x 1, 5-pin USB 2.0 header (p=2.00mm) x 2
Indicator	Front Power LED x 1, HDD Active LED x 1
	Rear —
Power	
Battery	Lithium battery
Power Requirement	DC: 12V
Mechanical	
Dimension (WxHxD)	8" x 8" x 1.75" (203.20mm x 203.20mm x 44.45mm)
VESA Mounting	Wallmount
Anti-Vibration	0.5 Grms/ 5~ 500Hz/ operation – HDD
Anti-Shock	10 G peak acceleration (11 msec. duration)
Environmental	
Operating temperature	32°F ~ 122°F (0°C ~ 50°C)
Certificate	CE & FCC Class A
Operating System	
MS Windows	Windows® 7 32/64-bit, Windows® 8.1 32/64-bit
Linux	Fedora

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM Module	Display	Cooler	Storage	LAN	USB	Serial Port	Expansion Slot	Power	Mounting
ACS-1U01-BT4-1900-V10	J1900 2.42G/2M	—	VGA x 1 HDMI x 1	Fanless w/ CPU heatsink	2.5" HDD shelf, Full-Size Mini-Card (mSATA) x 1	GbE x 1	USB 3.2 Gen 1 x 1 USB 2.0 x 7	RS-232 x 1, RS-232/422/485 x 1 (W/O VGA)	Half-size Mini-Card x 1 w/o SIM Slot	DC12V	wallmount

Packing List

- Wallmount Kit
- 2.5" HDD tray
- ACS-1U01-BT4 (1U Chassis w/ EMB-BT4)

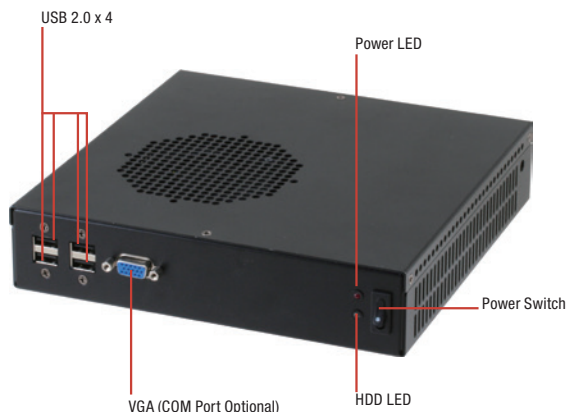
Optional Accessories

- 1702031802
Power Cord (US & Taiwan Type)
- 1702031803
Power Cord (European Type)
- 170203180B
Power Cord (China Type)
- 170203180E
Power Cord (Japanese Type)
- 1255300607
60W Power Adapter

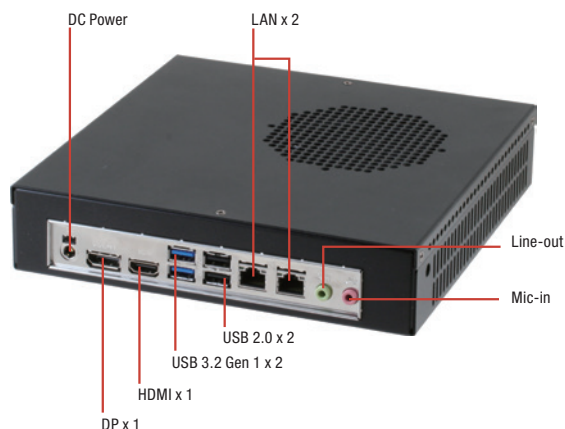
ACS-1U01-H81B

Mini-ITX 1U Chassis with Intel® 4th Generation Processor

Front View



Rear View



Features

- LGA 1150 Socket For Intel® 4th Generation 22 nm Processor
- Intel® H81
- DDR3 1333/1600MHz SODIMM x 2, Up to 16GB
- Dual Independent Display: HDMI, DP
- Rich IO Supported: USB 3.2 Gen 1 x 2, USB 2.0 x 6
- Compact Size, Low Power

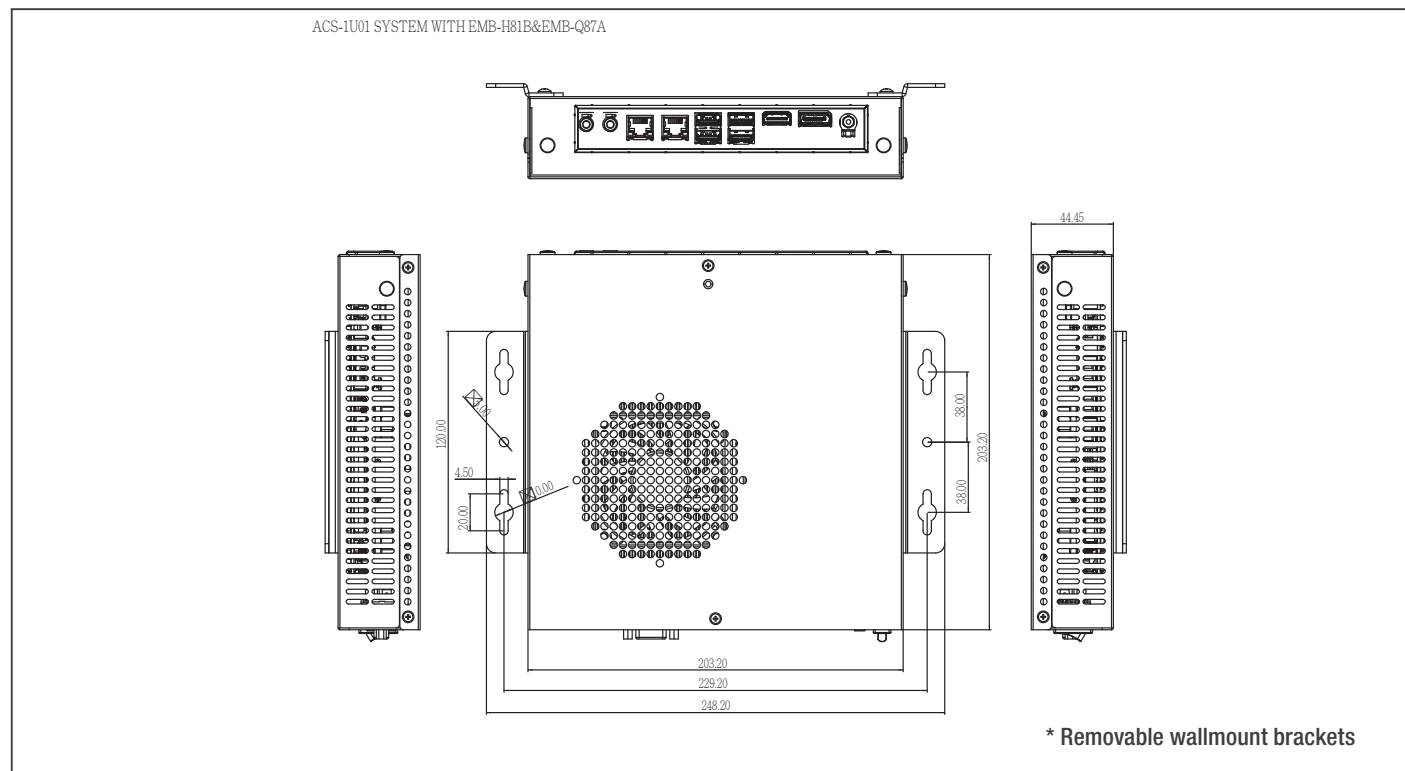


Specifications

System	
CPU	Intel® Haswell 22nm LGA 1150 socket Processor, Max. 65W TDPs (follow thin mini-ITX)
Chipset	—
System Memory	204-pin SODIMM x 2, Max. 16GB, DDR3 1600/1333 MHz Non-ECC, un-buffered memory, Dual-channel memory architecture
I/O Chipset	NCT6791D
Display Interface	Chipset Intel® Graphics Media Accelerator
	DP HDMI1.4 x 1, Up to 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz DP1.2 x 1, Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz VGA x 1, Up to 1920 x 1200 @ 60 Hz
Storage Devices	2.5" HDD, Full-Size Mini-Card (optional)
Network	LAN Realtek® PCIe Gb LAN 8111G x 2
I/O	
Front I/O	USB USB 2.0 port x 4
	Audio —
	Display VGA x 1
	Others On/Off Button x 1, Power LED + HD LED x 1, (COM port optional if not use VGA port)
Rear I/O	USB USB 3.2 Gen 1 port x 2, USB 2.0 port x 2
	Audio Line-out (green) x 1, Mic-in (pink) x 1
	Display HDMI x 1, DP x 1
	LAN RJ-45 connector x 2
	Power DC Power x 1
	Others —
Expansion	Mini PCIe Half size Mini-Card (PCIe+USB) x 1
	Storage Full-Size Mini-Card x 1, SATA3 (6.0Gb/s) x 1, SATA2 (3.0Gb/s) x 1, SATA power connector x 1
	Others RS-232 9-pin int. box header x 1, RS/232/422/485 9-pin box header x 1, 5-pin USB 2.0 header (p=2.00mm) x 2
Indicator	Front Power LED x 1, HDD Active LED x 1
	Rear —
Power	
Battery	Lithium battery
Power Requirement	DC: 12V~24V (± 5% wide range voltage input)
Mechanical	
Dimension (WxHxD)	8" x 8" x 1.75" (203.20mm x 203.20mm x 44.45mm)
VESA Mounting	Wallmount
Anti-Vibration	0.5 Grms/ 5~ 500Hz/ operation – HDD
Anti-Shock	10 G peak acceleration (11 msec. duration)
Environmental	
Operating temperature	32°F ~ 122°F (0°C ~ 50°C)
Certificate	CE & FCC Class A
Operating System	
MS Windows	Windows® 10 32/64-bit, Windows® 7 32/64-bit, Windows® 8.1 32/64-bit
Linux	Fedora

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM Module	Display	Cooler	Storage	LAN	USB	Serial Port	Expansion Slot	Power	Mounting
ACS-1U01-H81B-V10	LGA1150 Socket type	—	HDMI x 1, DP x 1, VGA x 1	1U aluminium cooler x 1	2.5" HDD shelf, Full-Size Mini-Card	GbE x 2	USB 3.2 Gen 1/2.0 x 2, USB 2.0 x 6	RS-232 x 1, RS-232/422/485 x 1(W/O VGA)	Half size Mini-Card x 1	DC 12V ~ 24V	Wallmount

Packing List

- 1U Cooler
- Wallmount Kit
- 2.5" HDD Tray
- ACS-1U01-H81B (1U Chassis w/ EMB-H81B)

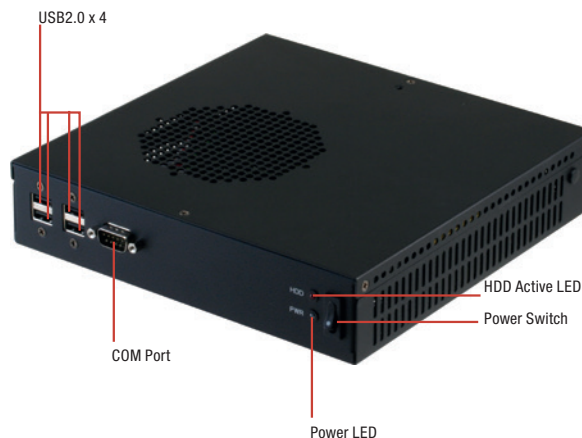
Optional Accessories

- **1702031830**
Power Cord (US & Taiwan Type)
- **1702031831**
Power Cord (European Type)
- **1702031810**
Power Cord (Japanese Type)
- **ADAPTER-120W-01 (P/N)**
120W Power Adapter

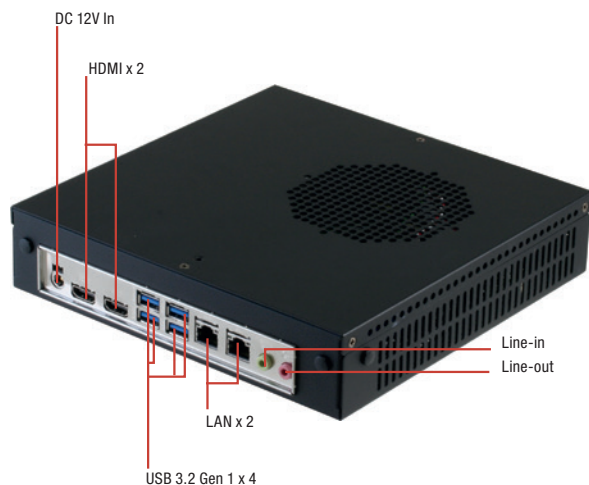
ACS-1U01-H110B

Mini-ITX 1U Chassis with 6th Generation Intel® Processor

Front View



Rear View



Features

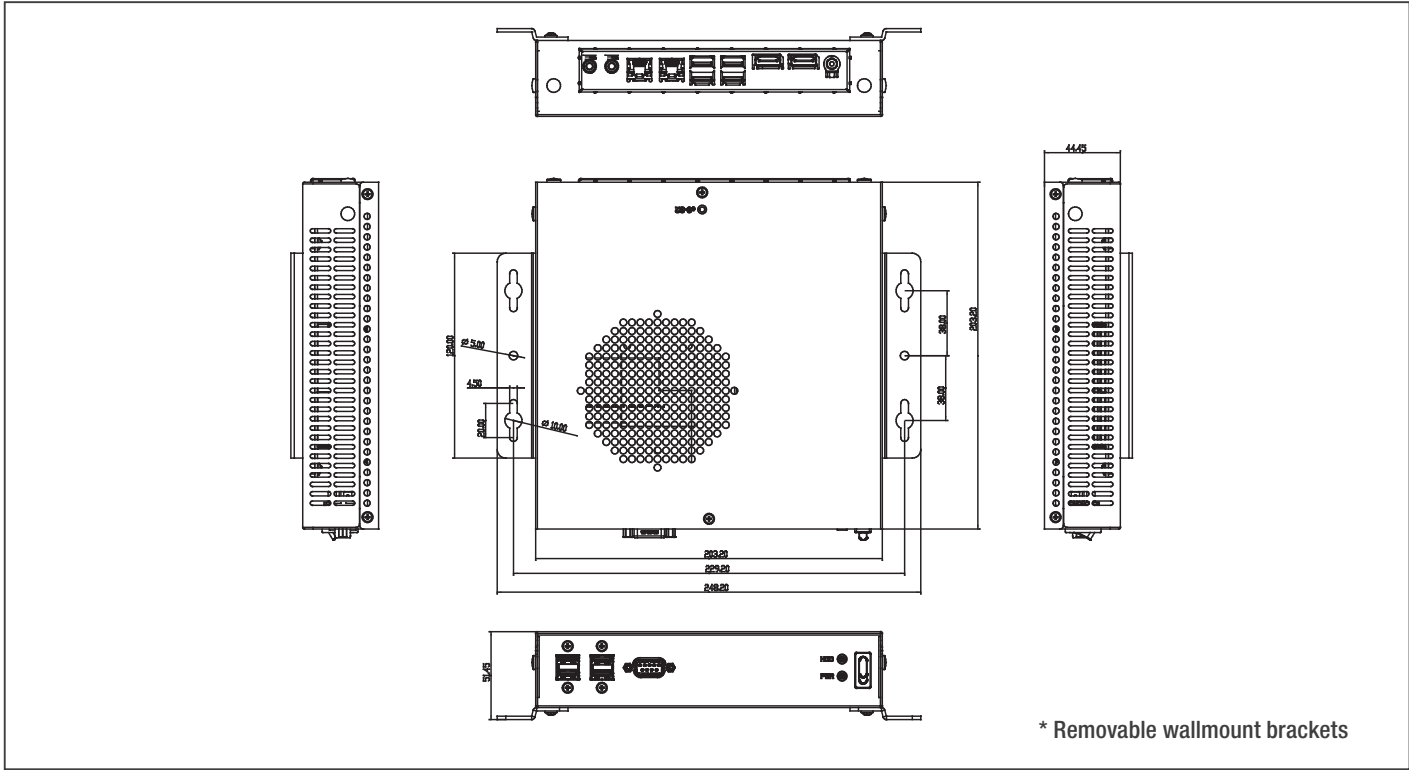
- LGA 1151 Socket For 6th Generation Intel® 14 nm Processor
- Intel® H110
- DDR4 2133/1867 MHz SODIMM x 2, Up to 32GB
- Dual Independent Display: HDMI x 2, BOM Changeable to DP
- Rich IO Supported: USB 3.2 Gen 1 x 4, USB 2.0 x 4
- Compact Size, Low Profile



Specifications

System	
CPU Board	EMB-H110B-A10-HH
CPU	Intel® Skylake 14nm LGA 1151 socket Processor, Max. 65W TDPs (follow thin mini-ITX)
Chipset	Intel® H110
System Memory	2 x SODIMM, Max. 32GB, DDR4 2133/1867 MHz, Non-ECC, Un-buffered
I/O Chipset	NCT6791D
Display Interface	Intel® HD Graphics DP(BOM Change, default HDMI): Up to 1920 x 1200 @60Hz, with Digital Audio HDMI: Up to 4096 x 2304 @24Hz / 2560 x 1600 @60Hz, with Digital Audio LVDS: Up to 1920 x 1200 @60Hz, Dual Channel 18/24-bit colay eDP: Up to 4096 x 2304 @60Hz
Storage Devices	2.5" HDD x 1, Full-Size Mini-Card(mSATA default, PCIe + USB optional) x 1
LAN	Realtek® PCIe Gb LAN 8111G x 2
I/O	
Front I/O Ports	USB 2.0 port x 4 Power S/W x 1 COM port x 1 HDD LED x 1 POWER LED x 1
Rear I/O Ports	USB 3.2 Gen 1 port x 4 Mic-In (pink) x 1 Line-Out (green) x 1 HDMI x 2 (BOM Changeable to DP) RJ-45 Connector x 2 DC Power jack x 1
Expansion	Mini PCIe Half-Size Mini-Card slot (PCIe + USB) x 1, Full-Size Mini-Card (Default mSATA, PCIe + USB optional) x 1
	Storage Full-size Mini-Card slot (mSATA default) x 1, SATA3(6.0Gb/s) x 1, SATA power connector x 1
	Others RS-232 9-pin int. box header x 1, RS/232/422/485 9-pin box header x 1, 5-pin USB 2.0 header(p=2.00mm) x 2
Power	
Battery	Lithium battery
Power Requirement	DC: 12V
Mechanical	
Dimension (WxHxD)	8" x 8" x 1.75" (203.20mm x 203.20mm x 44.45mm)
VESA Mounting	Wallmount
Anti-Vibration	0.5 Grms/ 5 ~ 500Hz/ operation – HDD
Anti-Shock	10 G peak acceleration (11 msec. duration)
Environmental	
Operating temperature	32°F ~ 122°F (0°C ~ 50°C)
Certificate	CE & FCC Class A
Operating System	
MS Windows	Windows® 7 32 / 64-bit, Windows® 8.1 32 / 64-bit, Windows® 10 32 / 64-bit
Linux	Ubuntu 16.04.02/Kernal 4.8.0

Dimension Unit: mm



Ordering Information

Part Number	CPU	RAM Module	Display	Cooler	Storage	LAN	USB	Serial Port	Expansion Slot	Power	Mounting
ACS-1U01-H110B-C10	LGA 1151 Socket Type	—	HDMI x 2 / HDMI x 1, DP x 1	1U aluminium cooler x 1	2.5" HDD shelf, Full-Size Mini-Card	GbE x 2	USB 3.2 Gen 1/2.0 x 4 USB 2.0 x 4	RS-232 x 1, RS-232/422/485 x 1	Half size Mini-Card x 1	DC 12V ~ 24V	Wallmount

Packing List

- Wallmount Kit
- 2.5" HDD Tray
- ACS-1U01-H110B (1U Chassis w/ EMB-H110B)

Optional Accessories

- 1702031802
Power Cord (US & Taiwan Type)
- 1702031803
Power Cord (European Type)
- 170203180B
Power Cord (China Type)
- 170203180E
Power Cord (Japanese Type)
- 1255201200
120W Power Adapter

ACS-1U01

Low-profile Mini-ITX Embedded Chassis



Features

- Supports Low-profile Mini-ITX Motherboard
- Supports 1 x 2.5" Internal HDD Bays
- Supports Wallmount Bracket

Specifications

System	
M/B	Mini-ITX
Dimension (W x D x H)	8" x 8" x 1.75" (203.20mm x 203.20mm x 44.45mm)
Color	Black
Processor Support	TDP < 65W
Drive Bay	2.5" internal HDD bracket x 1
Front I/O	USB 2.0 Port x 4 COM/VGA Port
Button	Power Switch x 1
LED	Power LED x 1 HDD LED x 1
Other	Antenna Hole x 4
Environmental	
Operating temperature	32°F~122°F (0°C~50°C)

Packing List

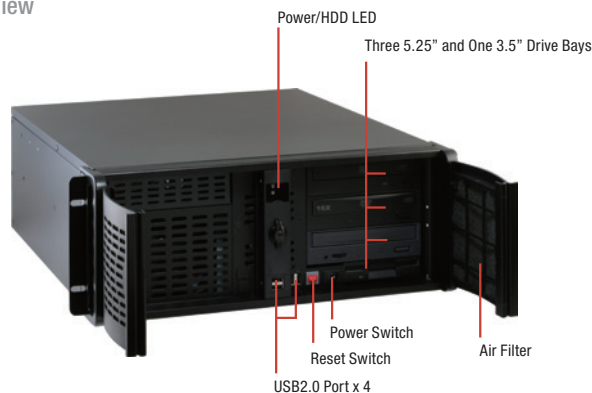
- Screw Bag
- Wallmount Kit
- SATA 7P Cable
- SATA Power Cable
- USB 2.0 Cable 2.0MM
- USB 2.0 Cable 2.54MM
- COM Cable
- ACS-1U01

17

Industrial Chassis - Rackmount



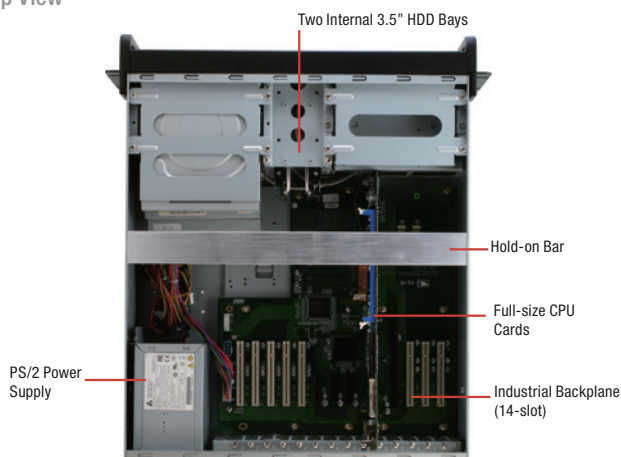
Front View



Front View



Top View



Rear View



Features

- 4U Height 19" Rackmount Chassis
- 14-Slot ISA/ PICMG Bus Passive Backplanes
- Standard PS2 AT/ATX
- 5.25" x 4 and 3.5" x 1 Front Access Drive Bays
- 3.5" x 2 Internal Drive Bays
- Dual Lockable Front Doors For Added Protection
- USB2.0 x 4 On Front Panel

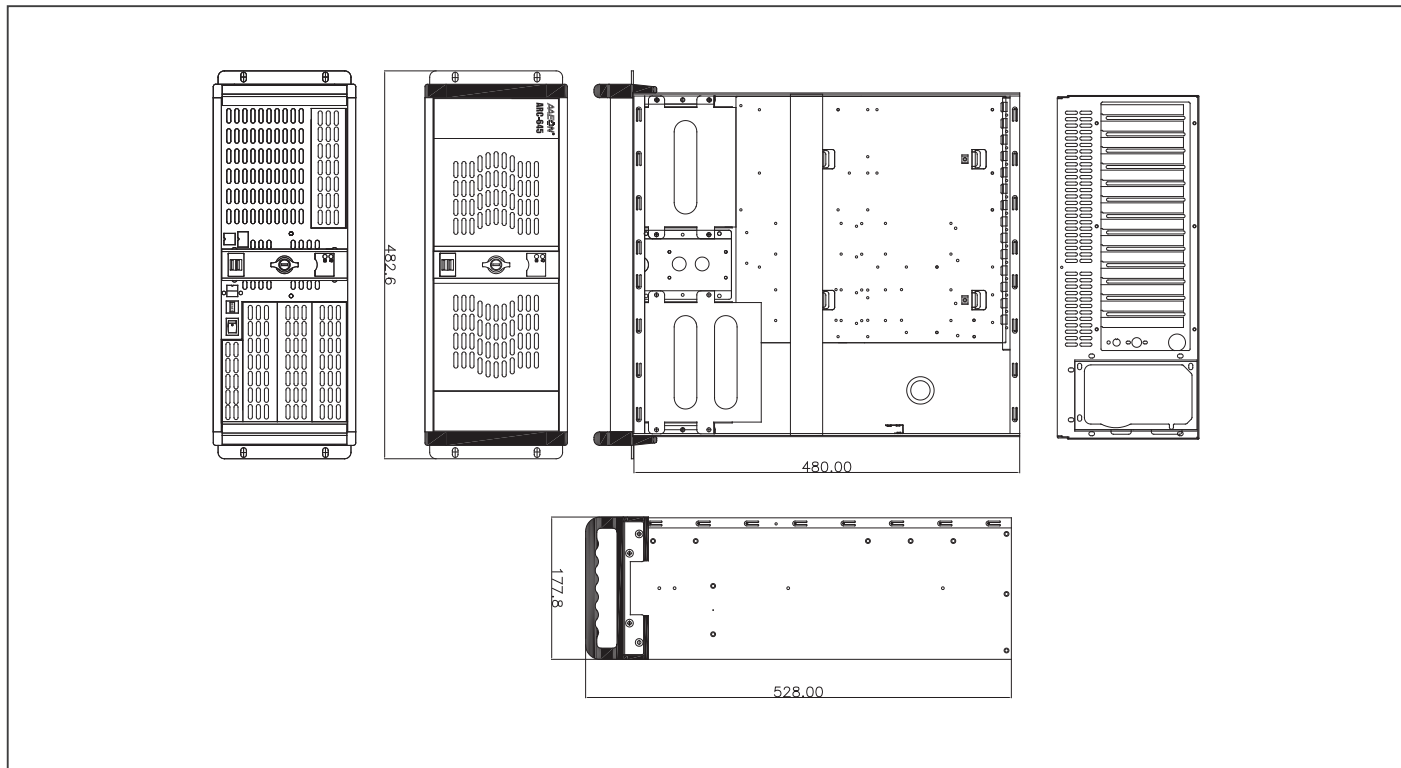


Specifications

System	
Construction	1.2 mm SECC Zinc-coated Steel
Storage	External: 3.5" Drive Bay x 1 5.25" Drive Bay x 4 Internal: 3.5" Drive Bay x 2
System Fan	12 cm Ball Bearing Fan with Removable Filter x 1
Front Panel	Power ON/OFF Switch x 1 Reset Button x 1 Power ON LED x 1 Hard Disk Drive Active LED x 1 USB Port x 4
Rear Panel	AT Keyboard Cut-out x 1 14 Slots (including system slot), supports max. 339 mm (length) for expansion card
Color	Black
Dimensions	19" (W) x 20.8" (D) x 7" (H) (482mm x 528mm x 177mm)
Carton Size	21.6" (W) x 27" (D) x 12.4" (H) (548mm x 685mm x 315mm)
Net Weight	26.4 lb (12 kg)
Gross Weight	30.8 lb (14 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Storage Humidity	10 ~ 90% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non operation
Shock	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non operation
EMC	CE/FCC Class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1255304003	ATX	Active PFC	Auto 90 ~ 264V	400W	PS2
AP-PS1255305000	ATX	Active PFC	Auto 90 ~ 264V	500W	PS2

Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
BP-214SH-P3E2I6	Rackmount, PICMG 1.3, 14-Slot Backplane, 3 PCI, 2 PCI-E, 6 ISA, Single Segment, ATX	PICMG 1.3	3/2/6/2 (PCI/PCI-E/ISA/PICMG 1.3)	ATX
BP-214SH-P8E4	Rackmount, PICMG 1.3, 14-Slot Backplane, 8 PCI, 4 PCI-E, Single Segment, ATX	PICMG 1.3	8/4/2 (PCI/PCI-E/PICMG1.3)	ATX
BP-214SG-P4	Rackmount, PICMG 14-Slot Backplane, 4 PCI/ 8 ISA, Single Segment, AT/ATX, Bulk Pack	PICMG 1.0	4/9/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
BP-214SG-P7	Rackmount, PICMG 14-Slot Backplane, 7 PCI/ 5 ISA, Single Segment, AT/ATX, Bulk Pack	PICMG 1.0	7/6/2 (PCI/ ISA/ PICMG)	ATX
BP-214SG-P12	Rackmount, PICMG 14-Slot Backplane, 12 PCI/ 1 ISA, Single Segment, AT/ATX, Bulk Pack	PICMG 1.0	12/1/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend

CPU Card Options

Model/Name	CPU Level	Master Interface
FSB-B75G	Socket LGA 1155, Intel® 3rd Generation Core™ i3/i5/i7	PICMG 1.0

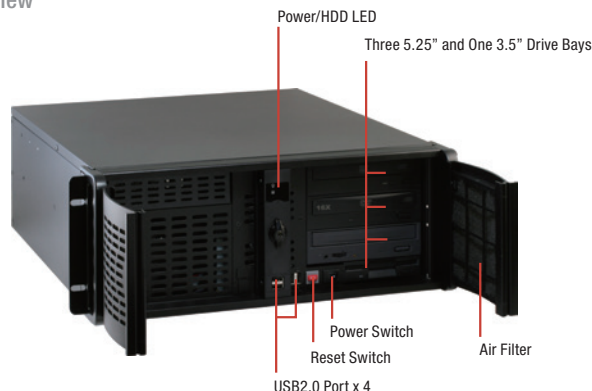
Ordering Information

Model/Name	Description
TF-ARC-645-B02	Rackmount 4U Chassis, Bare for 14-Slot Backplane, PS2 Power, PS_SW (ATX), Black

CPU Cooler Options

Model/Name	Description
175920000D	LGA1155/1150 CPU Cooler (2U)
1759218000	LGA1155/1150 CPU Cooler (1.5U)
175920000G	LGA775 CPU Cooler
1759200335	LGA775 CPU Cooler

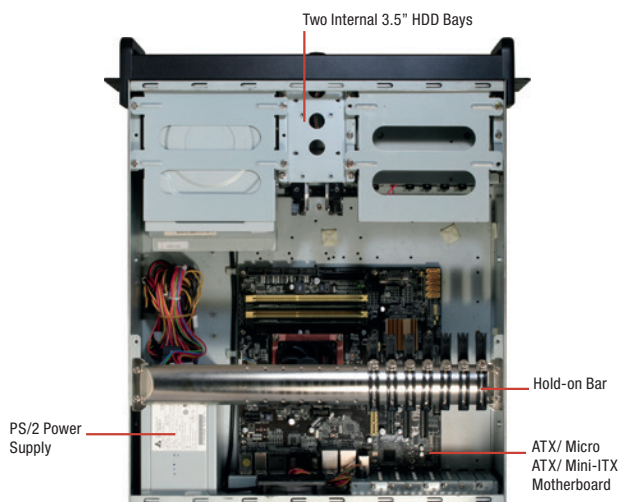
Front View



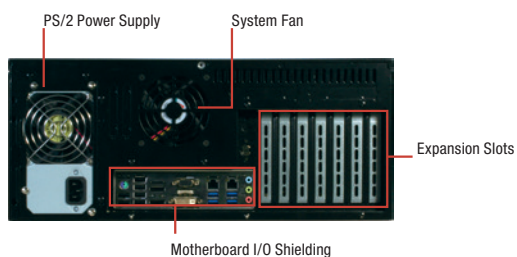
Front View



Top View



Rear View



Features

- 4U Height 19" Rackmount Chassis
- System Fan x 2, Support Cool Down CPU And Key Component Temperature
- Standard Motherboard ATX/ Micro ATX/ Mini-ITX
- Standard PS2 AT/ATX
- 5.25" x 4 and 3.5" x 1 Front Access Drive Bays
- 3.5" x 2 Internal Drive Bays
- Dual Lockable Front Doors For Added Protection
- USB2.0 x 4 On Front Panel

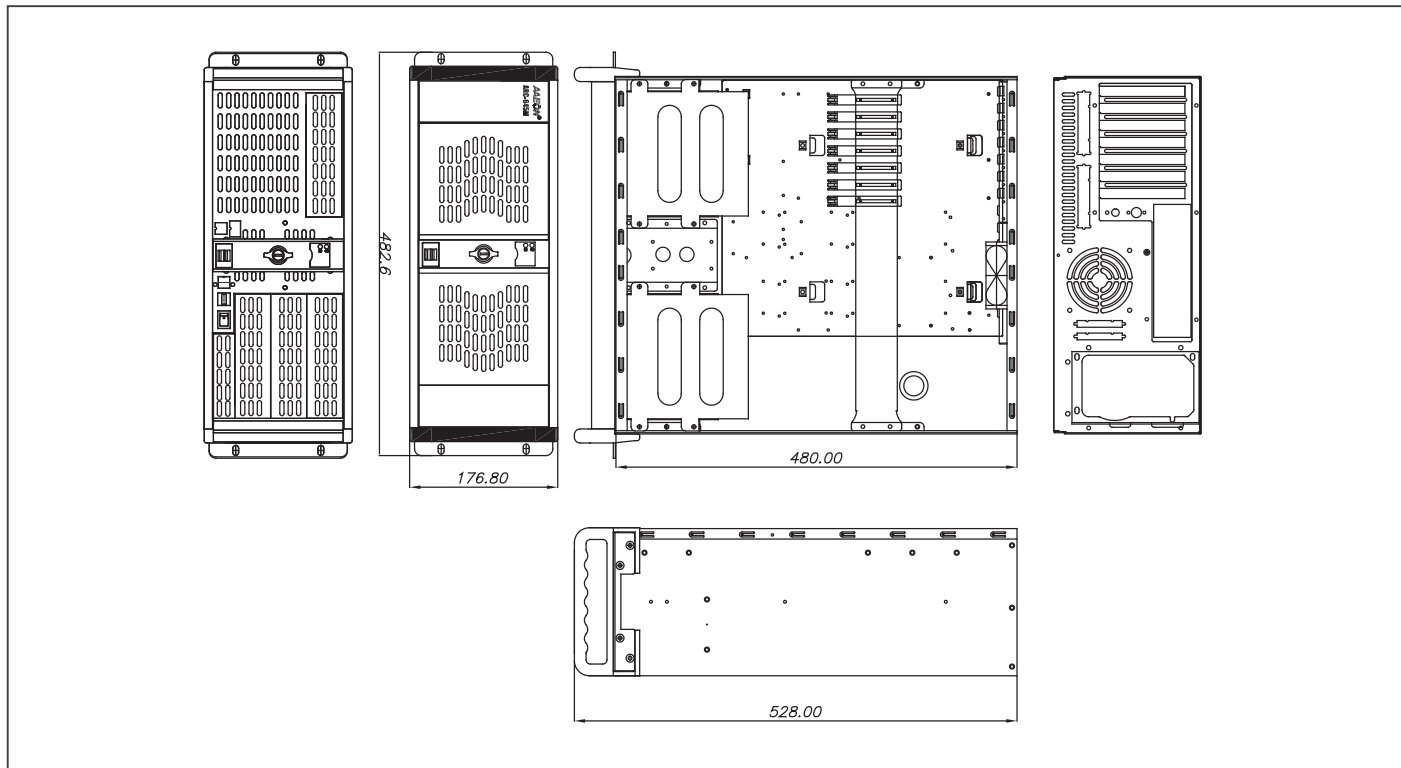


Specifications

System	
Construction	1.2mm SECC Zinc-coated Steel (Japanese Manufactured)
Storage	External: 3.5" Drive Bay x 1 5.25" Drive Bay x 4 Internal: 3.5" Drive Bay x 2
System Fan	12 cm Fan on Front Panel x 1, 8 cm Fan On Rear Side x 1
Front Panel	Power ON/OFF Switch x 1 Reset Button x 1 Power ON LED x 1 Hard Disk Drive Active LED x 1 USB Port x 4
Rear Panel	AT Keyboard Cut-out x 1 Reserved Cut-out for DB Connector x 4 7 Slots, supports max. 312 mm (length) for expansion card
Color	Black
Dimensions	19" (W) x 7" (H) x 20.8" (D) (482mm x 177mm x 528mm)
Carton Size	21.6" (W) x 12.4" (H) x 27" (D) (548mm x 315mm x 685mm)
Net Weight	26.4 lb (12 kg)
Gross Weight	30.8 lb (14 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Storage Humidity	10 ~ 90% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non operation
Shock	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non operation
EMC	CE/FCC Class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1255304003	ATX	Active PFC	Auto 90 ~ 264V	400W	PS2
AP-PS1255305000	ATX	Active PFC	Auto 90 ~ 264V	500W	PS2

Industrial Motherboard Options

CPU Card	CPU Level	Remark
IMBA-H61A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 300W Power supply
IMBA-Q87A	Socket LGA1150, Intel® 4th Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power supply
IMBM-B75A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power supply
IMBM-H61A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 300W Power supply
IMBM-Q87A	Socket LGA1150, Intel® 4th Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power supply
IMBA-Q77	Socket LGA1155, Intel® 3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power Supply
IMBA-967	Socket LGA1155, Intel® Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power Supply

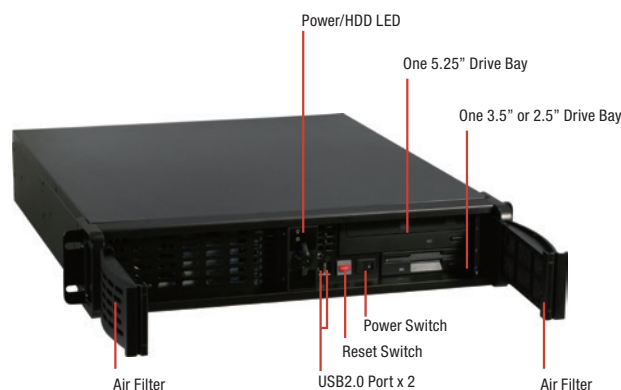
Ordering Information

P/N	Description
TF-ARC-645M-B	Rackmount 4U Chassis, Bare for Motherboard & PS2 Power, PS_SW (ATX), Black

CPU Cooler Options

Model/Name	Description
175920000D	LGA1155/1150 CPU Cooler (2U)
1759218000	LGA1155/1150 CPU Cooler (1.5U)
175920000G	LGA775 CPU Cooler
1759200335	LGA775 CPU Cooler

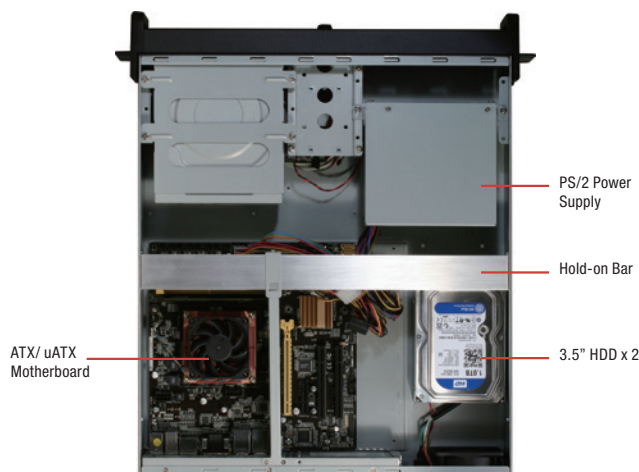
Front View



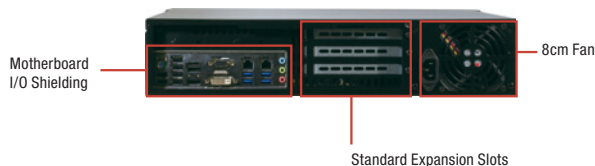
Front View



Top View



Rear View



Features

- 2U Height 19" Rackmount Chassis
- Industrial ATX/uATX/Mini-ITX Motherboard
- Standard PS2 AT/ATX Power
- 5.25" x 1 and 3.5" x 1 Front Access Drive Bays
- 3.5" x 2 Internal Drive Bays
- Dual Lockable Front Doors Added Protection
- USB2.0 x 2 On Front Panel

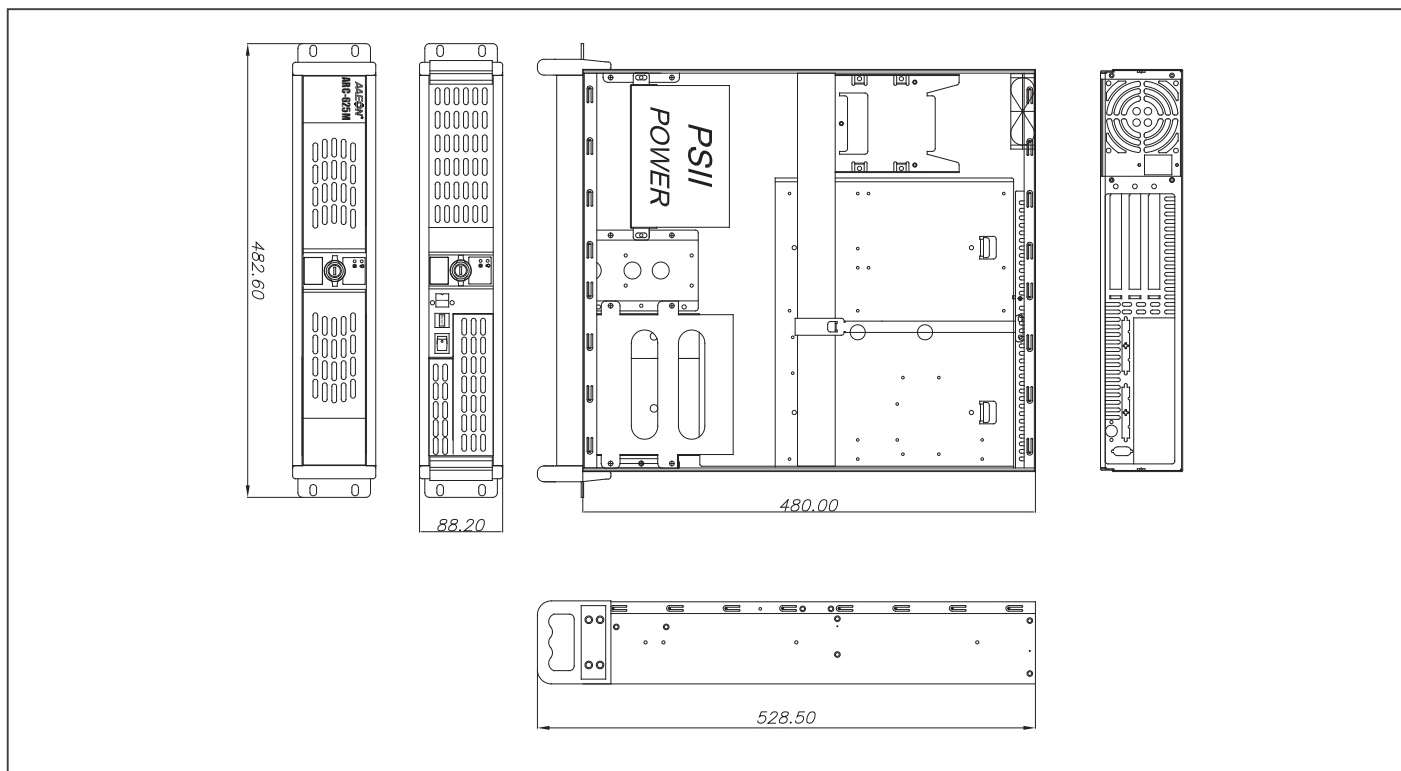


Specifications

System	
Construction	1.2mm SECC Zinc-Coated Steel
Storage	External: 3.5" Disk Drive x 1 5.25" CD-ROM or Removable Hard Disk Drive x 1 Internal: 3.5" Hard Disk Drive Bay x 2
System Fan	8cm Ball Bearing Fan with Removable Filter x 1
Front Panel	Power ON/OFF Switch x 1 Reset Button x 1 Power ON LED x 1 Hard Disk Drive Active LED x 1 USB x 2
Expansion	PCI via riser card x 3, supports max. 167 mm (length) for expansion card
Color	Black
Dimensions	19" (W) x 20.8" (D) x 3.5" (H) (482mm x 528mm x 88.2mm)
Carton Size	21.6" (W) x 27" (D) x 8.8" (H) (548mm x 685mm x 224mm)
Net Weight	22 lb (10 kg)
Gross Weight	26.4 lb (12 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Storage Humidity	10 ~ 90% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz/ non operation
Shock	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non operation
EMC	CE/FCC Class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1255304003	ATX	Active PFC	Auto 90 ~ 264V	400W	PS2

Industrial Motherboard Options

CPU Card	CPU Level	Remark
IMBA-H61A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 300W Power supply
IMBA-Q87A	Socket LGA1150, Intel® 4th Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power supply
IMBM-B75A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power supply
IMBM-H61A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 300W Power supply
IMBM-Q87A	Socket LGA1150, Intel® 4th Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power supply
IMBA-Q77	Socket LGA1155, Intel® 3rd Generation Core™ i3/i5/i7 CPU, TDP95W	Recommend with Min. 400W Power Supply
IMBA-967	Socket LGA1155, Intel® Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power Supply

Ordering Information

P/N	Description
TF-ARC-625M-B	Rackmount 2U Chassis, Bare for Motherboard & PS2 Power, PS_SW (ATX), Black

CPU Cooler Options

Model/Name	Description
175920000D	LGA1155/1150 CPU Cooler (2U)
1759218000	LGA1155/1150 CPU Cooler (1.5U)
175920000G	LGA775 CPU Cooler (1U)
1759200335	LGA775 CPU Cooler (1U)

Riser Card Options

Model/Name	Description
96866660W	PCIe[x4] to PCIe[x4] x 1 Riser Card, 10 cm

Industrial Chassis - Wallmount

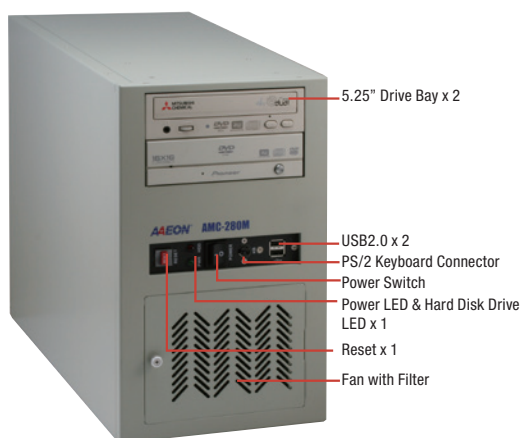
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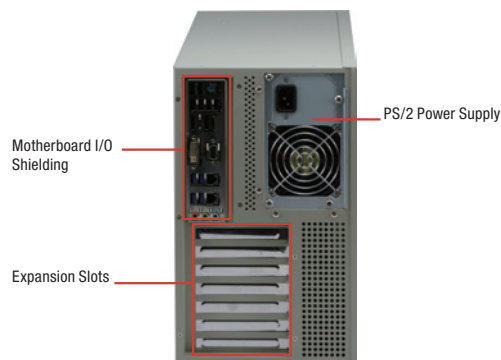
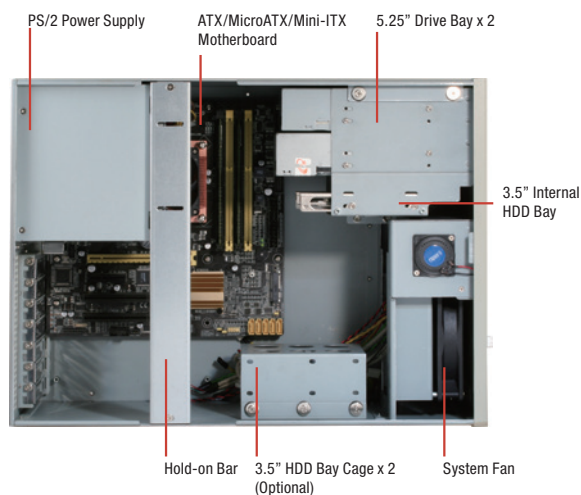
AMC-280M

7-Slot Wallmount Chassis, Industrial Main Board Support

Front View



Rear View



Features

- 7-Slot Wallmount Chassis
- ATX, Micro ATX, Mini-ITX Factor Motherboard
- Standard PS2 AT/ATX Power
- External 5.25" Drive Bay x 2
- Internal 3.5" Disk Drive Bay x 1 (+2 Optional)
- USB2.0 x 2 and Keyboard Connector x 1 On Front Panel

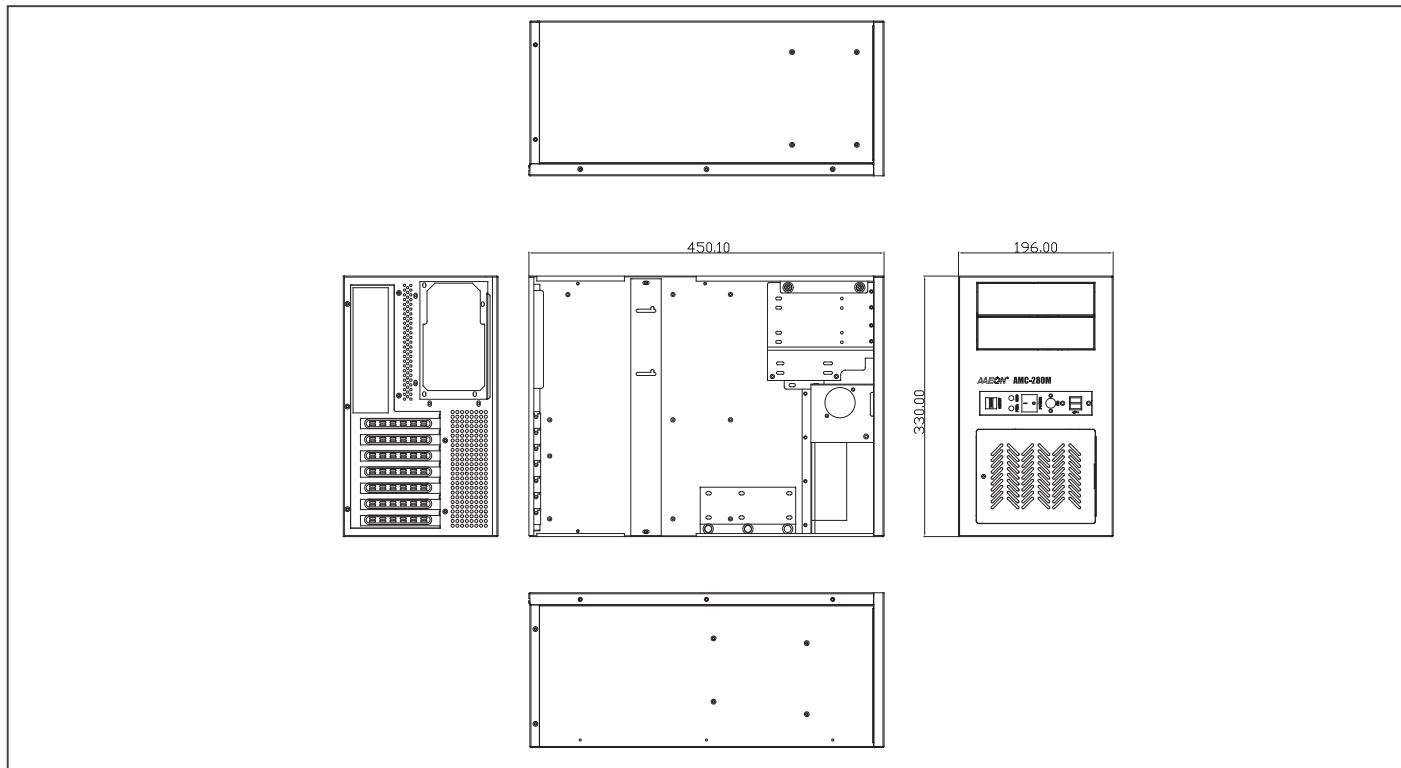


Specifications

System	
Construction	Heavy-duty Steel
Storage	External: 5.25" External Drive Bay x 2 Internal: Up to 3.5" Drive Bay x 1 Optional: Two 3.5 HDD Bay Cage
System Fan	12cm Ball Bearing Fan with Removable Filter x 1
Front Panel	Power ON/OFF Switch x 1 Reset Button x 1 Power ON LED x 1 Hard Disk Drive Active LED x 1 PS/2 Keyboard Connector x 1 USB x 2
Rear Panel	I/O Bracket provided by motherboard mfg 7 slots, supports max. 312 mm (length) for expansion card
Color	White
Dimensions	7.7" (W) x 17.7" (D) x 13" (H) (196mm x 450mm x 330mm)
Carton Size	11.1" (W) x 20.3" (D) x 18" (H) (281mm x 515mm x 457mm)
Net Weight	19.8 lb (9 kg)
Gross Weight	22 lb (10 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Storage Humidity	10 ~ 90% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation
Shock	15 G peak acceleration (11 m sec. duration), operation
EMC	CE/ FCC Class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1255304003	ATX	Active PFC	Auto 90 ~ 264V	400W	PS2
AP-PS1255305000	ATX	Active PFC	Auto 90 ~ 264V	500W	PS2

Industrial Motherboard Options

CPU Card	CPU Level	Remark
IMBA-H61A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 300W Power Supply
IMBA-Q87A	Socket LGA1150, Intel® 4th Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power Supply
IMBM-B75A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power Supply
IMBM-H61A	Socket LGA1155, Intel® 2nd/3rd Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 300W Power Supply
IMBM-Q87A	Socket LGA1150, Intel® 4th Generation Core™ i3/i5/i7 CPU, TDP 95W	Recommend with Min. 400W Power Supply
IMBA-967	Socket LGA1155, Intel® Core™ i7/i3/i5 4C/2C 32nm Core, TDP 95W	Recommend with Min. 400W Power Supply
IMBA-Q77	Socket LGA1155, Intel® 3rd Generation Core™ i3/i5/i7 CPU, TDP95W	Recommend with Min. 400W Power Supply

Ordering Information

Model/Name	Description
TF-AMC-280M-W-01	ATX/Micro ATX, Wallmount, Bare Chassis, for PS2 Power, PS_SW (ATX), Color: 413-01, w/o HDD Cage

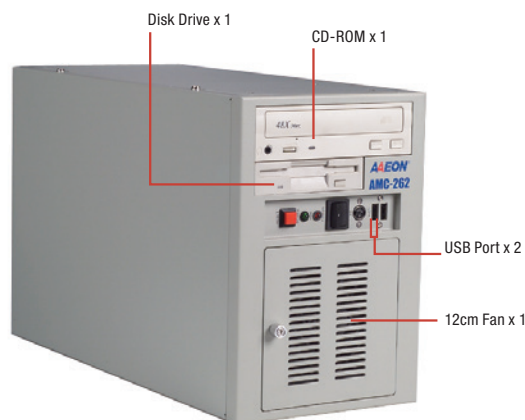
CPU Cooler Options

Model/Name	Description
175920000D	LGA1155/1150 CPU Cooler (2U)
1759218000	LGA1155/1150 CPU Cooler (1.5U)
175920000G	LGA775 CPU Cooler
1759200335	LGA775 CPU Cooler

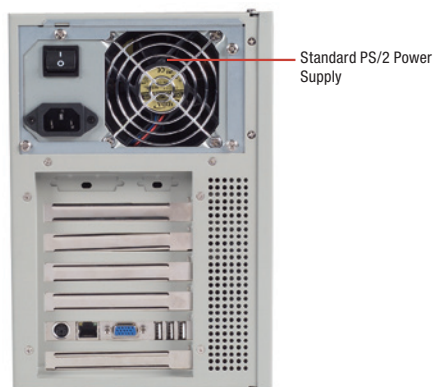
Optional Accessory

Model/Name	Description
M00280M000	Internal Two 3.5" Drive Bay Cage

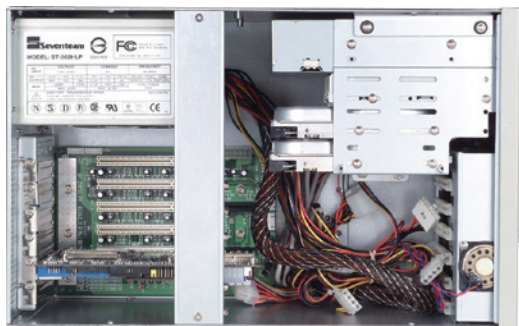
Front View



Rear View



Top View



Features

- 6-Slot Wallmount Chassis
- 6-Slot ISA/ PICMG Bus Passive Backplanes
- Standard PS2 Power Supply
- External 3.5" Drive Bay x 1
- External 5.25" Drive Bay x 1
- Internal 3.5" Drive Bay x 2
- USB2.0 x 2 On Front Panel

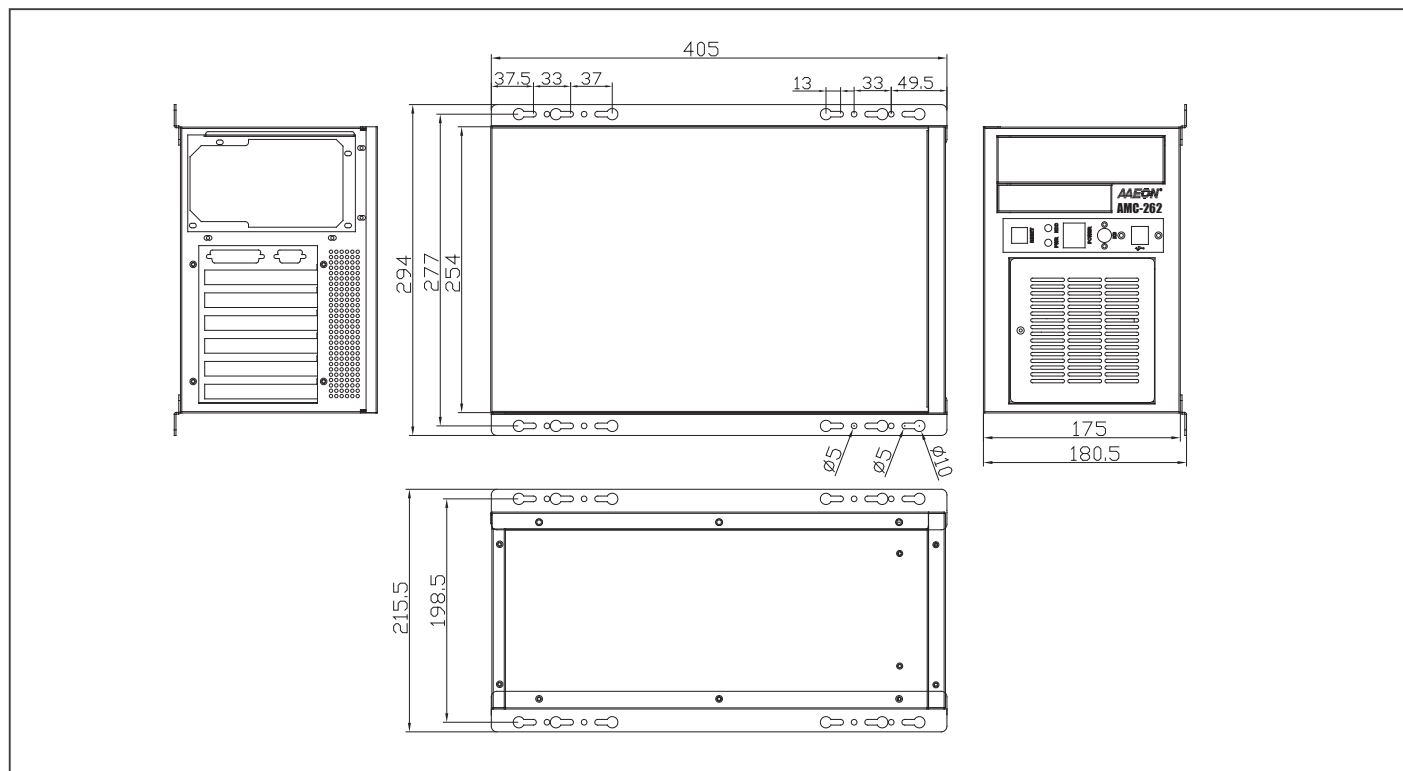


Specifications

System	
Construction	Heavy-duty steel
Storage	External: 3.5" Drive Bay x 1 5.25" Drive Bay x 1 Internal: 3.5" Drive Bay x 2
System Fan	12cm Ball Bearing Fan with Removable Filter x 1
Front Panel	Power ON/OFF Switch x 1 Reset Button x 1 Power LED x 1 HDD Active LED x 1 PS/2 Keyboard Connector x 1 USB Port x 2
Rear Panel	Reserved Cut-out for DB-25 Connector x 1 Reserved Cut-out for DB-9 Connector x 1 6 slots (including system slot), supports max. 339 mm (length) for expansion card
Color	White
Dimensions	6.9" (W) x 16.1" (D) x 10" (H) (175mm x 405mm x 254mm)
Carton Size	12.4" (W) x 14.37" (D) x 20.47" (H) (315mm x 365mm x 520mm)
Net Weight	12.1 lb (5.5 kg)
Gross Weight	13.9 lb (6.3 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Storage Humidity	10 ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation 1.5 Grms/ 5 ~ 500Hz/ non operation
Shock	15 G peak acceleration (11 m sec. duration), operation 30 G peak acceleration (11 m sec. duration), non operation
EMC	CE/FCC Class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1255304003	ATX	Active PFC	Auto 90 ~ 264V	400W	PS2

Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
BP-206SP-P4	Wallmount, PCI, 6-Slot Backplane, 4 PCI, Single Segment, ATX	PCI	4/0/2 (PCI/ ISA/ PICMG_PCI)	ATX, 3-pin ATX extend
BP-206SS-P4	Wallmount, PCI/ISA, 6-Slot Backplane, 4 PCI, 3 PCI/ISA, Single Segment, ATX	PCISA	4/1/0 (PCI/ ISA/ APIC)	ATX
BP-206SG-P2	Wallmount, PICMG, 6-Slot Backplane, 2 PCI, 3 ISA, Single Segment, ATX	PICMG 1.0	2/3/1 (PCI/ ISA/ PICMG)	ATX, 3-pin ATX extend
BP-206SG-P4	Wallmount, PICMG, 6-Slot Backplane, 4 PCI, 2 ISA, Single Segment, ATX	PICMG 1.0	4/2/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
BP-206SH-P3	Wallmount, Backplane, PICMG 1.3, 6-Slot, 3 PCI, 2 PCI-E, Single segment, ATX	PICMG 1.3	3/2/1 (PCI/PCI-E/PICMG 1.3)	ATX
BP-206SI	Wallmount, ISA 6-Slot Backplane, 6 ISA, Single segment, AT/ATX	ISA	(0/6/0)	AT/ATX

CPU Cards Options

Model/Name	Description	Master Interface
FSB-G41H	Socket LGA 775, Intel® Core™ 2 Duo/ Core™ 2 Quad (800/1066/1333)	PICMG 1.3
FSB-B75G	Socket LGA 1155, Intel® 3rd Generation i3/i5/i7	PICMG 1.0
HSB-800I	Onboard AMD LX 800 Processor	ISA

Ordering Information

Model/Name	Description
TF-AMC-262-W-00	Wallmount, 6-Slot Bare Chassis, for PS2 Power, PS_SW (ATX), Color: White

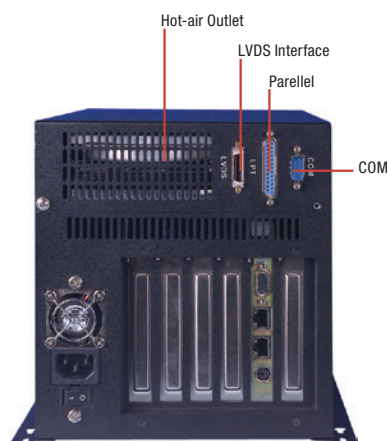
CPU Cooler Options

Model/Name	Description
1759218000	LGA1155/1150 CPU Cooler (1.5U)
1759200006	LGA775 CPU Cooler (1U)
1759200335	LGA775 CPU Cooler (1U)

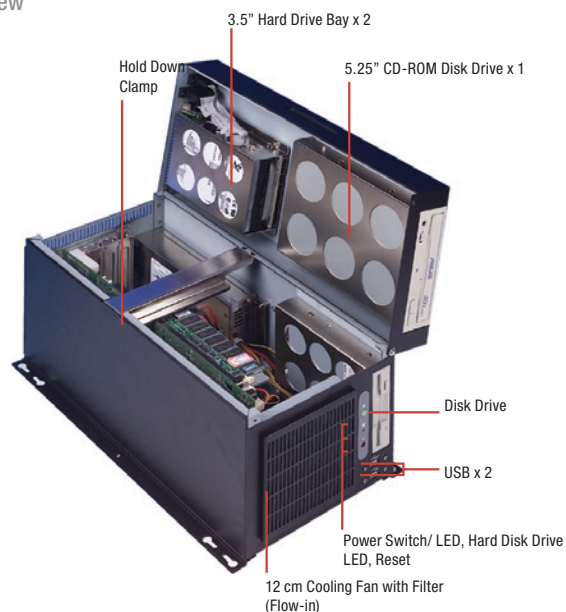
Front View



Rear View



Top View



Features

- High Performance Full-Size CPU Cards And 6-Slot PICMG Bus Passive Backplanes
- Wallmount Or Desktop Applications
- External 3.5" Drive Bay x 1
- External 5.25" Drive Bay x 1
- Internal 3.5" Drive Bay x 2
- Easy-To-Replace Ball Bearing Cooling Fan with Filter x 1 For Card Area
- Card Hold-Down Bar x 1

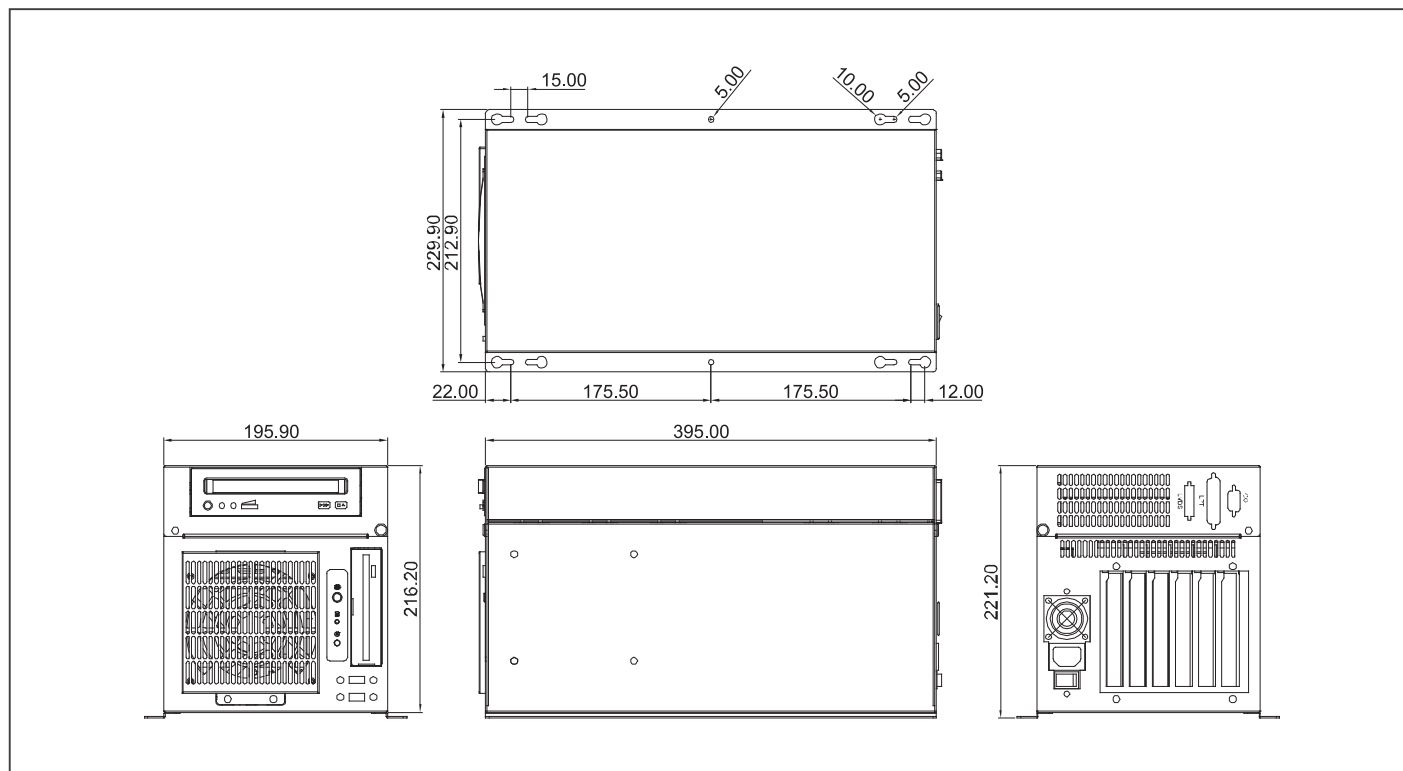


Specifications

System	
Construction	Heavy-duty Steel
Storage	External: 5.25" Drive Bay x 1 (Front Accessible) 3.5" Drive Bay x 1 (Front Accessible) Internal: 3.5" Drive Bay x 2
System Fan	12cm Ball Bearing Fan with Removable Filter (Flow-in) x 1
Front Panel	Power On/ Off Switch with LED x 1 Reset Button x 1 Hard Disk Drive Active LED x 1 USB x 2
Rear Panel	COM x 1 Parallel x 1 Reserved Cut-out for LVDS Connector x 1 6 slots (including system slot), supports max. 339 mm (length) for expansion card
Color	Black
Dimension	7.7" (W) x 15.55" (D) x 8.5" (H) (196mm x 395mm x 216mm)
Carton Size	12.2" (W) x 13.2" (D) x 20" (H) (310mm x 335mm x 510mm)
Net Weight	17 lb (7.8 kg)
Gross Weight	20 lb (9.2 kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	32°F ~ 167°F (0°C ~ 75°C)
Storage Humidity	5 ~ 95% @ 40°C, non-condensing
Vibration	1 Grms/ 5 ~ 500Hz/ random operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1757930015	ATX	Active PFC	Auto 115-230V	300W	1U (40.5cm)
1757215005	ATX	Active PFC	Auto 115-230V	150W	1U (40.5cm)

Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
BP-206SG-P2	Wallmount, PICMG, 6-Slot Backplane, 2 PCI, 3 ISA, Single Segment, ATX	PICMG 1.0	2/3/1 (PCI/ ISA/ PICMG)	ATX, 3-pin ATX extend
BP-206SG-P4	Wallmount, PICMG, 6-Slot Backplane, 4 PCI, 2 ISA, Single Segment, ATX	PICMG 1.0	4/2/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
BP-206SI	Wallmount, ISA 6-Slot Backplane, 6 ISA, Single segment, AT/ATX	ISA	0/6/0 (PCI/ ISA/ PICMG)	AT/ATX

CPU Cards Options

Model/Name	Description	Master Interface
FSB-G41H	Socket LGA 775, Intel® Core™ 2 Duo/ Core™ 2 Quad (800/1066/1333)	PICMG 1.3
FSB-B75G	Socket LGA 1155, Intel® 3rd Generation i3/i5/i7	PICMG 1.0
HSB-800I	Onboard AMD LX 800 Processor	ISA

Ordering Information

Model/Name	Description
TF-AEC-206-B-00	Wallmount, 6-Slot Chassis Bare for 1U Power, PS_SW (AT/ATX), Black

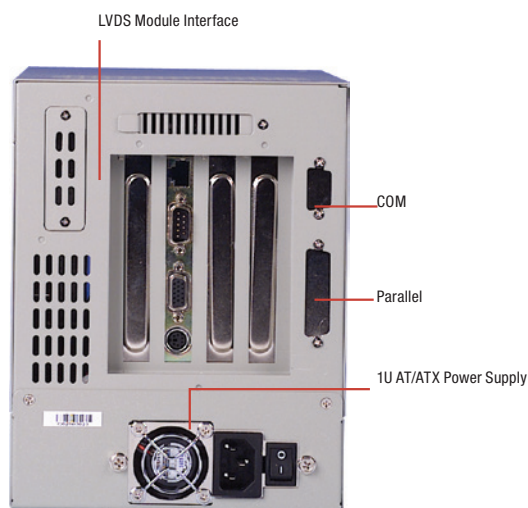
CPU Cooler Options

Model/Name	Description
1759218000	LGA1155/1150 CPU Cooler (1.5U)
175920000G	LGA775 CPU Cooler (1U)
1759200335	LGA775 CPU Cooler (1U)

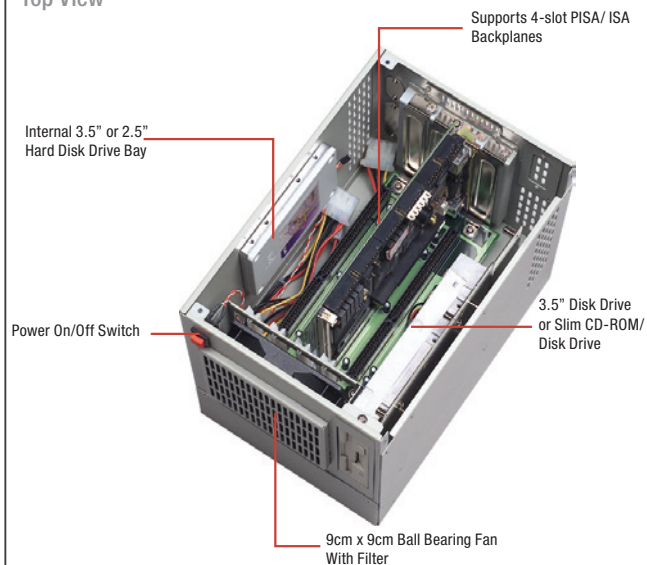
Front View



Rear View



Top View



Features

- High Performance Half-size CPU Cards
- 4-slot PCISA/ ISA Bus Passive Backplanes
- Wallmount or Desktop Applications
- External 3.5" Drive Bay x 1 (Optional Slim Optical Drive)
- Internal 2.5"/ 3.5" Drive Bay x 1
- Easy-to-replace Ball Bearing Cooling Fan and Filter x 1 for Card Area

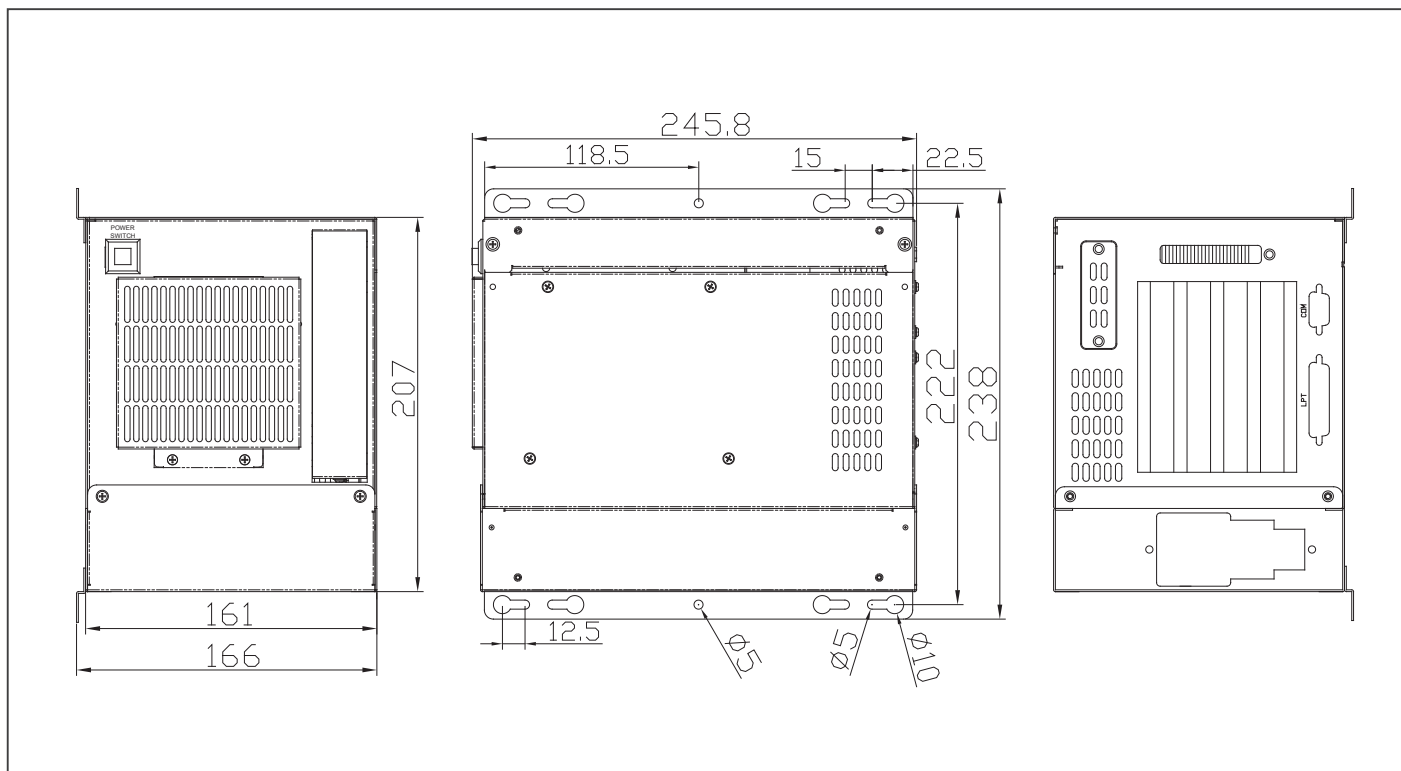


Specifications

System	
Construction	Heavy-duty Steel
Storage	External: Slim CD-ROM & Disk Drive x 1 or 3.5" Disk Drive x 1 (front accessible) Internal: 3.5" Hard Disk Drive Bay or 2.5" Hard Disk Drive Bay x 1
System Fan	9 cm ball Bearing Fan with removable filter (flow-in) x 1
Rear Panel	COM x 1 Parallel x 1 Reserved Cut-out for LVDS Connector x 1 4 slots (including system slot), supports max. 185 mm (length) for expansion card
Color	White
Dimension	6.3" (W) x 8.1" (H) x 9.7" (D) (161mm x 207mm x 247mm)
Carton Size	13.39" (W) x 10.63" (H) x 13.19" (D) (340mm x 270mm x 335mm)
Net Weight	12.1 lb (5.5 kg)
Gross Weight	13.9 lb (6.3 kg)
Environmental	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)
Storage Temperature	32°F ~ 167°F (0°C ~ 75°C)
Storage Humidity	10 ~ 80% @40°C, non-condensing
Vibration	1 Grms/ 5 ~ 500Hz/ random operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A

Dimension

Unit: mm



Power Supply Options

P/N	TYPE	PFC Support	Input Voltage	Watt	Size
1757215005	ATX	Active PFC	Auto 115/230V	150W	1U (40.5cm)
1757930015	ATX	Active PFC	Auto 115/230V	300W	1U (40.5cm)

Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
BP-204SI	Wallmount, ISA, 4-slot Backplane, 4 ISA, Single Segment, AT	ISA	0/4/0 (PCI/ISA/PICMG)	AT
BP-204SS-P1	Wallmount, PCISA, 4-slot Backplane, 1 PCI/ 2 ISA, Single Segment, AT/ATX	PCISA	1/2/2 (PCI/ISA/PISA)	AT
BP-204SP-P3	Wallmount, PCI, 4-slot Backplane, 3 PCI, Single Segment, AT/ATX, Bulk Pack	PCI	4/0/0 (PCI/ISA)	ATX, 3-pin ATX extend

CPU Cards Options

Model/Name	Description	Master Interface
HSB-800I	Onboard AMD LX 800 Processor	ISA
HSB-LN2I	Onboard Intel® Atom™ D525/N455	ISA

Ordering Information

Model/Name	Description
TF-AEC-204-W-00	Wallmount 4-Slot Chassis Bare for 1U Power(18cm), PS_SW(AT/ATX), 413C-01

Optional Accessory

Model/Name	Description
9741204000	Accessory CD-ROM for AEC-204

Memo

A series of horizontal dotted lines for writing.

Memo

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