

ARES-5423-TP

Programmable Embedded Controller with Intel® Atom™ Processor D2550 Platform



System

CPU	Soldered onboard Intel® Atom™ Processor D2550 1.86GHz
Memory	Soldered onboard 2GB DDR3 SDRAM
Chipset	Intel® NM10
Graphics	Integrated Intel® GMA3650
ATA	1 x Serial ATA port at 300MB/s HDD transfer rate
LAN Chipset	2 x Realtek 8111 GbE controllers
Watchdog Timer	1~255 levels reset

I/O

Serial Port	2 x RS-232 ports via one 1x10-pin terminal block 4 x RS-232/485 configurable ports via one 2x10-pin terminal block
USB Port	4 x USB 2.0 ports
LAN	2 x RJ-45 ports
Video Port	1 x DB-15 female connector for Analog RGB
Selectable Port	1 x 8-bit digital I/O, 4 in/4 out, all are 1x10-pin terminal block
LED Indicator	PW/HDD/COM/DIO
Expansion Bus	1 x Mini-card socket interconnected with SIM card socket for optional Wi-Fi or HSUPA module

Environmental

Operating Temp.	-10 ~ 55°C (14 ~ 131°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 176°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	5~500Hz, 3 Grms Random
Shock	Operating 40G (11ms), Non-operating 80G with CF/SSD

Features

- **Less Cable, Fanless Design**
- Rich I/O on the Panel with 6 x COM, DIO, 4 x USB.
- LED Indicator on the Panel with Power/HDD/COM/DIO
- CFast Socket, Outside Accessible
- Din-Rail Mounting supported
- Rugged Design for Shock/Vibration Protection
- Easy Installation/Maintenance

Qualification

Certification	CE, FCC Class A
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Power Requirement

Power Input	DC 9~36V input (w/ 2-pin DC input terminal block)
Power Consumption	25W (Typical)

Storage

Type	1 x 2.5" drive bay for HDD/SSD 1 x CFast socket, outside accessible
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Mechanical

Construction	Whole Aluminum chassis
Mounting	DIN-rail mount
Weight	1.7 kg (3.74 lb) (Barebone)
Dimensions (W x D x H)	170 x 127 x 70 mm (6.69" x 4.9" x 2.7")

OS Support

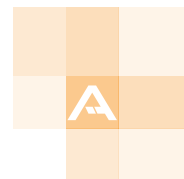
XPe / XP Pro / W7 Pro / WS7E

Ordering Information

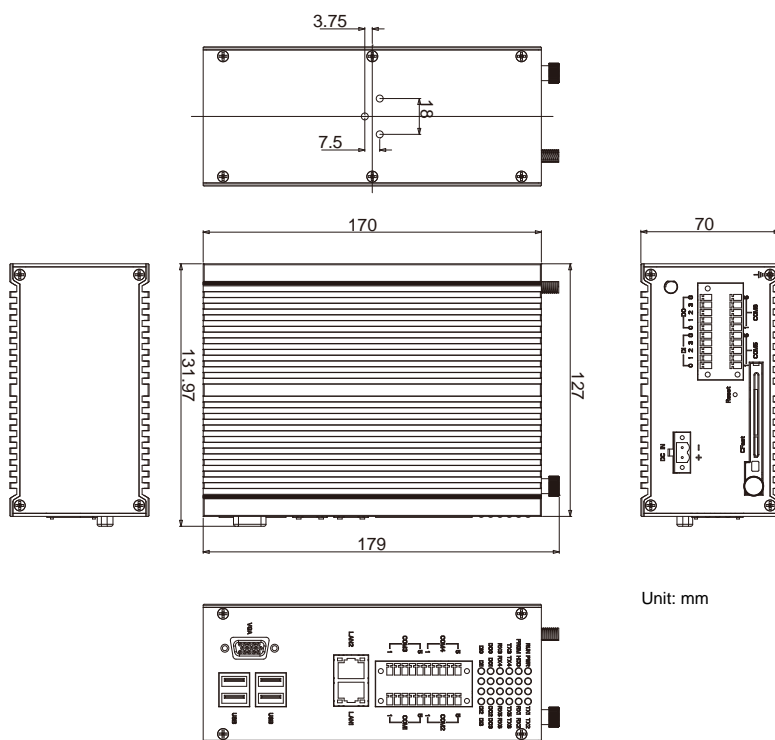
ARES-5423-TP	Barebone system w/ Intel® Atom™ Processor D2550 and 2GB DRAM
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All specifications are subject to change without notice.



Dimensions



Unit: mm

Optional Accessories

PAC-B065W-1 19V/3.4A 65W AC/DC adapter kit



Optional Configuration (CTOS* Kit)

80GB SSD Intel® 2.5" 80GB SATAIII SSD kit



HSPA-SI1400 HSPA 3.75G module kit & internal wiring



WIFI-AT2300 Atheros AR9462 Wi-Fi module w/ 20cm internal wiring



ANT-D11 1 x Wi-Fi dual-band 2.4G/5G antenna



ANT-H11 1 x 2dBi HSPA antenna

*CTOS means *Configure-to-Order Service*.

» Example of ARES-5423 mounted on DIN rail

