AMOS Series

VIA

AMOS-5210

Fanless, Compact Embedded Chassis Kit for EITX-3000 Embedded Board Stacked with EMIO-3210 I/O Card
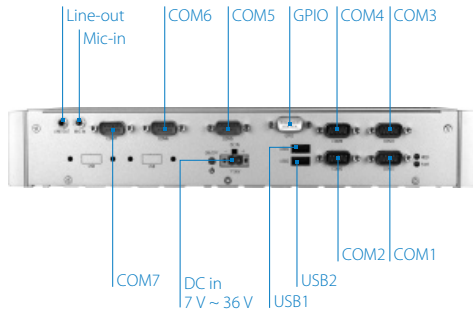

Features

- Fanless operation from -20℃ up to 55℃

- High, scalable performance with low power consumption

- Easy, quick installation and maintenance

- Anti-shock up to 50G with vibration resistant design to ensure extended reliability

- Modularized design with compact dimensions: 330.6 mm (W) x 54.2 mm (H) x 124.8 mm (D)

- Easy to use inter-changeable and customizable front and rear panels

- Build-in rich I/O functional feature cutouts for easy external access

- Maximum space efficiency for optimized electromagnetic compatibility
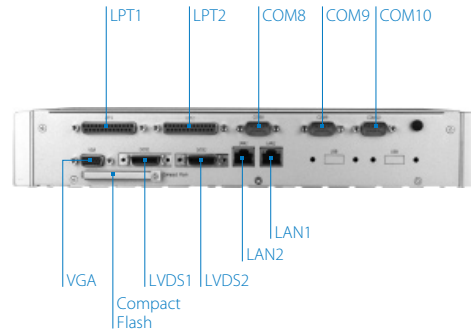
Specifications

Model Name		AMOS-5210
Chassis Construction	Construction	Metal Chassis Housing Dual front & rear metal face plates Aluminum bottom chassis housing mixed copper heat-pie (installed with EITX-3000 board)
	Dimension	330.6 mm (W) x 54.2 mm (H) x 124.8 mm (D) (when system equipped with aluminum bottom chassis housing)
	Weight	0.7 Kg (front plate & rear plate & top cover plate) 2.4 Kg (front plate & rear plate & top cover plate & aluminum bottom chassis housing)
Front I/O Ports	LED	1 x Green color LED to indicate the Power on/off status 1 x Red color LED to indicate the HDD activities status
	COM	7 x Front-access COM ports by 7 x D-Sub 9-pin connectors (onboard 5 x RS232/422/485 by 5 x DB-9 connectors of COM 1, 2 and COM5~7, with support of RS485 AutoFlow Control, 2 x RS232 by 2 x DB-9 connectors of COM 3 ~ 4)
	USB	2 x Front-access USB ports (onboard 2 x USB connectors, USB 2.0 compliant) Reserved cutouts for additional support of 2 x mini-DIN connectors via cable located on front plate, when system is equipped with Compact Flash only
	GPIO	1 x Front-access GPIO port by D-sub 9-pin male connector (optional GPIO cable to support GPIO connector)
	Audio	2 x Front-access 3.5Φ audio jack as Line-out and Mic-in (via board to board cable from audio pin header of EITX-3000 board)
	Power Input	1 x 2-pole Phoenix power input connector (onboard power input connector)
	Power on/off Switch	1 x ATX Power on/off button (onboard power on/off button)
Rear I/O Ports	COM	3 x Rear-access COM ports by 3 x D-Sub 9-pin connectors (onboard 3x RS232/422/485 by 3 x DB-9 connectors of COM8~10)
	Parallel	2 x Rear-access 25-pin LPT connectors (onboard 2 x 25-pin LPT connectors as LPT_1 and LPT_2)
	USB	Reserved cutouts for additional support of 2 x mini-DIN connectors via cable located on rear plate, when system is equipped with Compact Flash only
	LVDS	2 x Rear-access D-sub 26-pin LVDS connectors (onboard 2 x DB-26 connectors as LVDS_1 and LVDS_2)
	LAN	2 x Rear-access RJ-45 connectors (onboard 2 x GigaLAN connectors as LAN_1 and LAN_2)
	VGA	1 x Rear-access D-sub 15-pin VGA connector (onboard D-Sub 15-pin VGA connector)
	Antenna Hole	1 x Antenna hole to support optional Wireless LAN module

CE FC

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Front System IO   **Rear System IO**

Line-out / Mic-in | COM6 | COM5 | GPIO | COM4 | COM3

COM7 | DC in 7 V ~ 36 V | USB2 / USB1 | COM2 | COM1

LPT1 | LPT2 | COM8 | COM9 | COM10

LAN1 | LAN2

VGA | Compact Flash | LVDS1 | LVDS2

Specifications

Model Name		AMOS-5210
Drive Bay	HDD Bay	Default support 1 x 2.5" SATA hard disk drive bay located at aluminum bottom chassis housing by P/N of AMOS-5210-1MZZA1
	Compact Flash	Default support a Compact Flash type I/II socket from EITX-3000 board
Mounting		Supports table mount
Environmental Specifications	Operating Temperature	0°C up to 45 °C (when system equipped with HDD) -20°C ~ 55°C (when system only equipped with Compact Flash)
	Storage Temperature	-20°C ~ 60 °C
	Relative Humidity	0 ~ 90% @ 45°C, non-condensing
	Vibration Loading During Operation	With Compact Flash disk: 5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1 Oct./min, 1hr/axis With 2.5" hard disk drive located at aluminum bottom chassis housing by P/N of AMOS-5210-1MZZA1 1Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1 Oct./min, 1hr/axis
	Shock During Operation	With Compact Flash disk: 50G, IEC 60068-2-27, half size, 11ms duration With 2.5" hard disk drive located at aluminum bottom chassis housing by P/N of AMOS-5210-1MZZA1 20G, IEC 60068-2-27, half size, 11ms duration
	EMC Approved	CE, FCC Class A
Software Compatibility	Operation System	Microsoft Windows XP, Windows 7, Microsoft Windows XP Embedded Standard, Windows Embedded Standard 7, Linux Debian 6 (Kernel 2.6.32)

Ordering Information

Part Number	Description
AMOS-5210-1MZZA1	AMOS Embedded Chassis Kit for EITX-3000 Em-ITX Board + EMIO-3210 Em-IO Card

Optional Accessories

*Note: The optional accessories may have minimum ordering quantity limitation. Please contact VIA Sales representative for more details.

External AC-to-DC Adapter and Power Cable

Part Number	Description
99G63-020246	AC-to-DC adapter, DC 19V/90W with 2-pole phoenix power plug
99G33-02032C	Power Cable, 180 cm, USA type
99G33-02033C	Power Cable, 180 cm, Europe type
99G33-02034C	Power Cable with PSE mark, 180 cm for Japan

Optional Accessories

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WLAN USB Module

Part Number	Description
EMIO-1530-00A1	802.11 b/g Wireless LAN USB module for USA
EMIO-1530-10A1	802.11 b/g Wireless LAN USB module for Europe

Mounting Bracket Kit

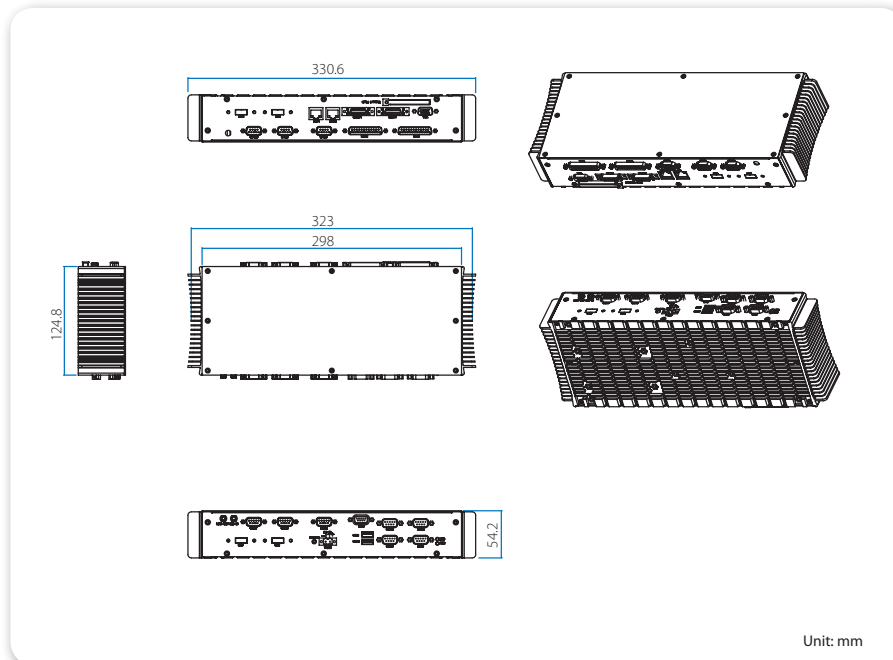| Part Number	Description
AMOS-5000-1WZZA1	Mounting bracket kits for wall and table mount
AMOS-5000-2WZZA1	Bottom mounting bracket for wall mount and table mount

RAM Module, Flash Disk, and 2.5" Hard Disk Drive

Part Number	Description
99G06-010598	2GB DDR2 800MHz, 128Mx8 SDRAM SODIMM, Industrial Grade, 0 ~ 85˚C
99G06-010588	1GB DDR2 800MHz, 128Mx8 SDRAM SODIMM, Industrial Grade, 0 ~ 85˚C
99G61-060011	1GB Compact Flash Disk, Industrial Grade, -40℃ ~ 85℃
99G61-060021	2GB Compact Flash Disk, Industrial Grade, -40℃ ~ 85℃
99G61-060031	4GB Compact Flash Disk, Industrial Grade, -40℃ ~ 85℃

Embedded OS (Only available for T-Parts OEM service)

Part Number	Description
POS-MEXSLI-ENS10	Windows XP Embedded Standard Image & License for AMOS-5210 English Version
POS-ME7SLI-ENS10	Windows Embedded Standard 7 32-bit Image & License for AMOS-5210 English Version
POS-DLNXLI-ENS09	Debian Linux Image & License for AMOS-5210 English Version

Dimensions

330.6

323

298

124.8

54.2

Unit: mm

Packing List

1 x AMOS-5210 front I/O panel
1 x AMOS-5210 rear I/O panel
1 x AMOS-5210 top cover
1 x Board to board audio cable
1 x Digital I/O cable
1 x SATA data and power cable
2 x Hex screw pack
1 x Screws package (for fastening chassis kits)
1 x Compact Flash door
1 x Antenna cover
1 x Quick Guide

* All product specifications are subject to change without notice. Update: February 20, 2012.

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