

ARES-5803/5830

Programmable Embedded Controller with 4th Generation Intel® Core™ i5-4402E



Features

- **Fanless, Cable-less and Modularized Design**
- Wide Range DC Power Input (9 ~ 36V)
- Rich Onboard I/O and Expansion Slots (1 x PCIe x1 + 2 x PCIe x4 Slots/ 3 x PCI Slots)
- RS-485 Auto-flow Control Supported
- Easy Installation/Maintenance
- Intel® SSD Compatible

System

CPU	Soldered onboard 4 th Generation Intel® Core™ i5-4402E 1.6GHz
Memory	2 x 204-Pin DDR3L SO-DIMM Sockets supporting 1333/1600MHz SDRAM up to 16GB
Chipset	Intel® QM87
Graphics	Integrated in Intel® HD4600
LAN Chipset	1 x Intel® i217LM PCIe controller 1 x Intel® i211AT PCIe controller
Watchdog Timer	1~255 level reset

I/O

Serial Port	2 ports (Isolated RS-485)
USB Port	4 x USB type A connectors for USB 3.0/2.0 ports
LAN	2 x RJ-45 Gigabit Ethernet ports
Video Port	1 x DVI-I connector for DVI-D/Analog RGB 1 x DisplayPort connector
Audio	Mic-in/Line-out with Realtek ALC886 HD Audio Codec
KB/MS	PS/2 interface Keyboard/ Mouse via Y-cable
Expansion Bus	ARES-5803: 2 x PCIe x8 + 1 x PCIe x1 slots ARES-5830: 3 x PCI slots

Environmental

Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient with air flow
Storage Temp.	-20 ~ 70°C (-4 ~ 158°F)
Relative Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	3G rms/5~500Hz /random Operation
Shock & Crash	Operating 40G (11 ms) Non-operation 60G with SSD

Qualification

Certification	CE, FCC Class A
Power Requirement	
Power Input	DC 9~36V input (w/ 3-pin DC input terminal block combine remote power on/off switch)
Power Consumption	Max. 40W (w/o I/O card)

Storage

Type	1 x 2.5" drive bay for SATA interface HDD/ SSD supporting 600MB/s HDD transfer rate 1 x mSATA socket
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Mechanical

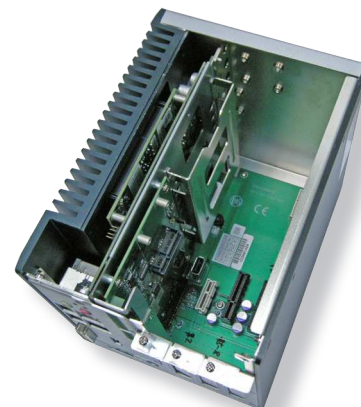
Construction	Aluminum alloy
Mounting	Wall-mount/Din rail mounting
Weight	3.111Kg (6.858lb)
Dimensions (W x D x H)	ARES-5803/ 5830: 164 x 192 x 140 mm

OS Support

WS7E/ WE8 STD

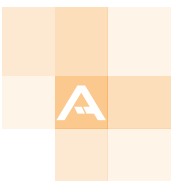
Ordering Information

ARES-5803	ARES-5803 programmable Embedded Controller w/ 2 x PCIe x4 + 1 x PCIe x1 slots
ARES-5830	ARES-5830 programmable Embedded Controller w/ 3 x PCI slots

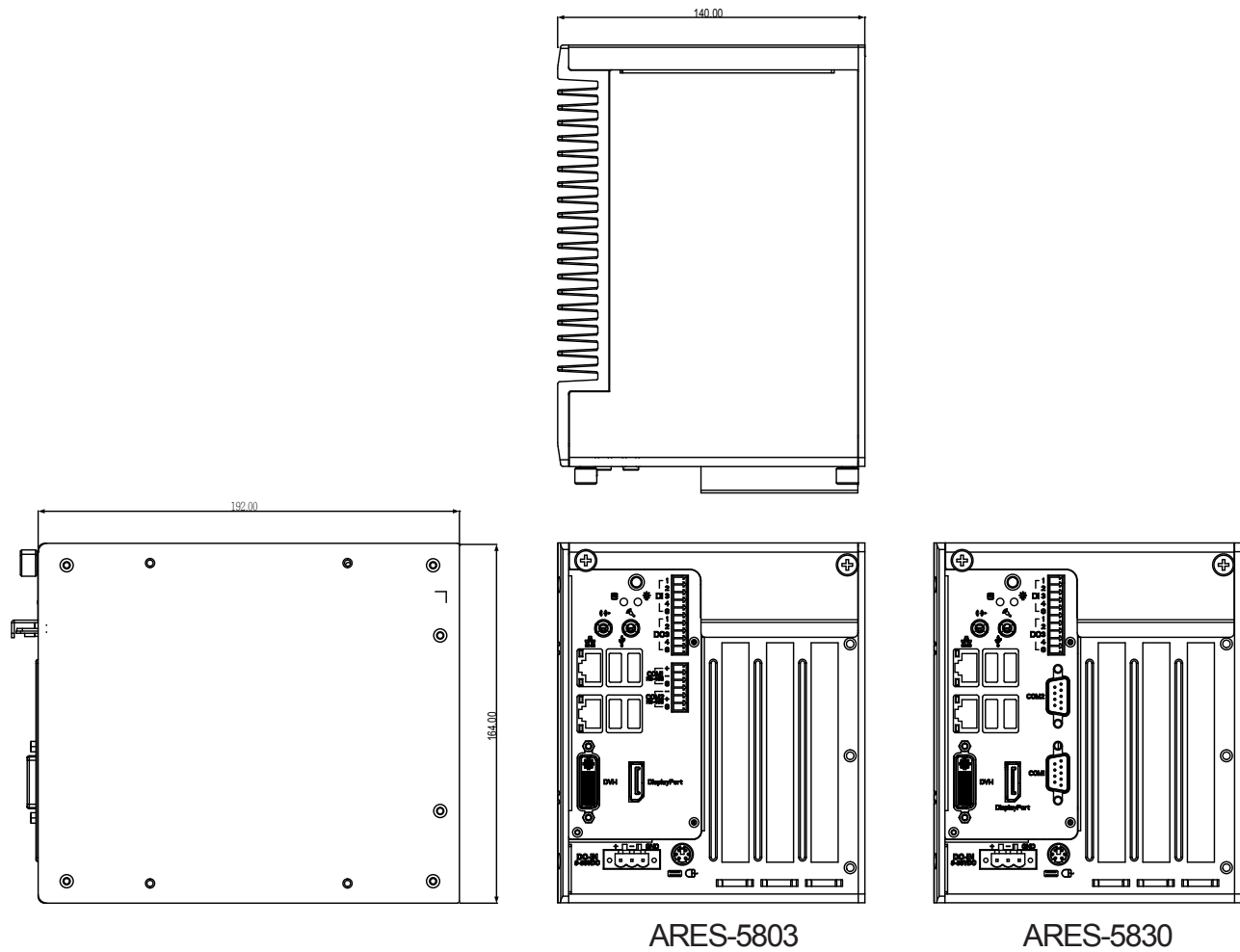


» Fanless Design

All specifications are subject to change without notice.



Dimensions



Standard Accessories

WMK-2000 Wall-mount kit for EPC-2000 Series



Optional Configuration (CTOS* Kit)

PAC-B065W 65W AC/DC adapter kit



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



DRK-2000 Din rail mounting kit for EPC-2000 Series



MM-3L-2G DDR3L-1333 2GB SDRAM

MM-3L-4G DDR3L-1333 4GB SDRAM

MM-3L-8G DDR3L-1333 8GB SDRAM



*CTOS means Configure-to-Order Service.