

# ARES-5800/5803/5830

## Programmable Embedded Controller with Intel® Core™ i5-4402E Processor



### Features

- Fanless, Cable-less and Modularized Design
- Wide Range DC Power Input (9 ~ 36VDC)
- Rich Onboard I/O and Expansion Slots
- RS-485 Auto-flow Control Supported
- Easy Installation/Maintenance
- Intel® SSD Compatible

System	
CPU	Soldered onboard Intel® 4th Generation Core™ i5-4402E 1.6GHz processor
Memory	2 x 204-Pin DDR3L SO-DIMM Sockets, supporting 1333/1600MHz SDRAM up to 16GB
Chipset	Intel® QM87
Graphics	Integrated in Intel® Core
LAN Chipset	1 x Intel® i217LM PCIe controller 1 x Intel® i211AT PCIe controller
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	ARES-5800: 2 x RS-232, 2 x RS-485 ARES-5803: 2 x RS-485 ARES-5830: 2 x RS-232
USB Port	4 x 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 ALC662 HD Audio CODEC
KB/MS	PS/2 interface Keyboard/ Mouse via Y-cable
Digital I/O	ARES-5800: No DIO ARES-5803/5830: 8-bit Digital IO
Expansion Bus	ARES-5800: No Expansion ARES-5803: 2 x PCIe x4 + 1 x PCIe x1 slots ARES-5830: 3 x PCI slots
Environmental	
Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow
Storage Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	5~500Hz 3G rms X,Y,Z axis w/ SSD, according to IEC 68-2-64 40G peak acceleration (11 m sec. duration), operation
Shock & Crash	60G peak acceleration (11 m sec. duration), non operation According to IEC 68-2-27

### 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 1.59A @19V (Typical)

### Storage

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

### Mechanical

Construction Aluminum alloy

Mounting Wall-mount/DIN-rail mounting

Weight ARES-5800: 2 kg (4.41 lb)  
ARES-5803/ 5830: 3 kg (6.61 lb)

Dimensions (W x H x D) ARES-5800: 164 x 78 x 192 mm  
ARES-5803/ 5830: 164 x 140 x 192 mm

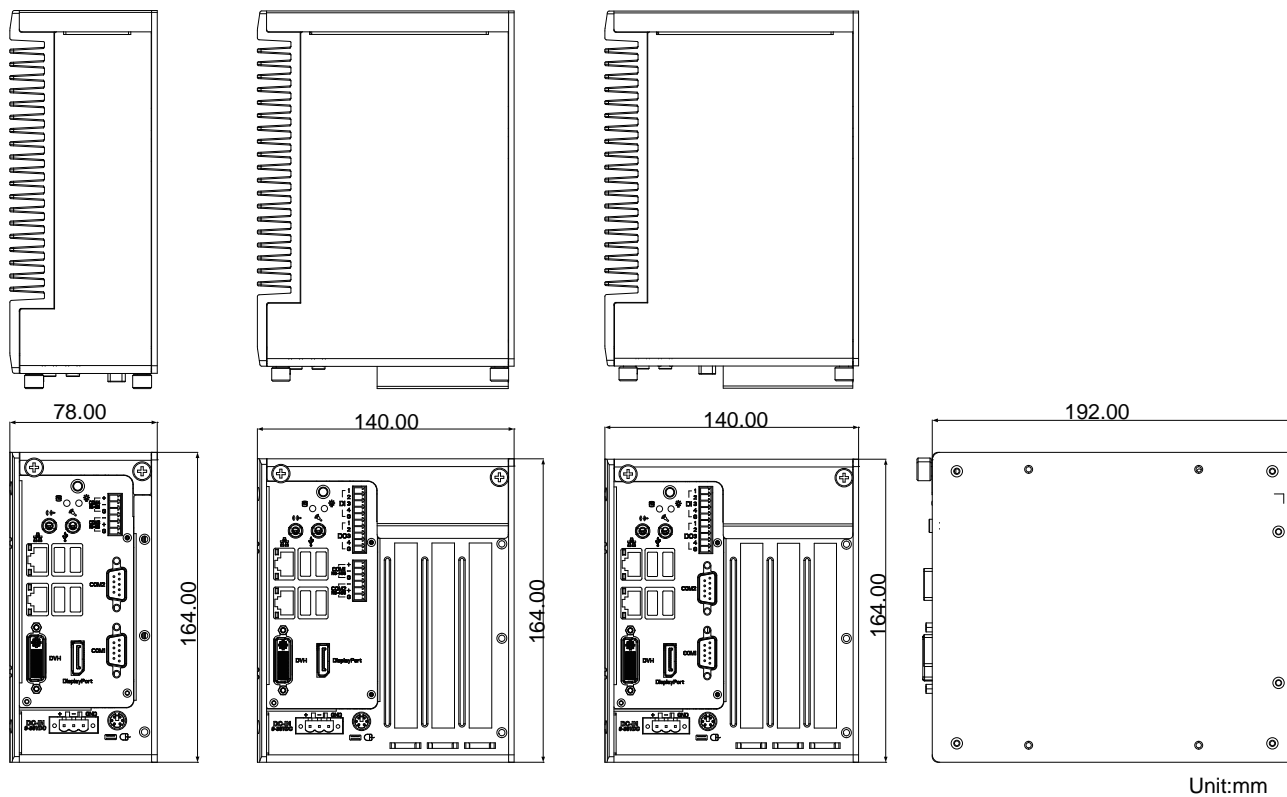
### OS Support

W7 Pro / WS7E

### Ordering Information

ARES-5800	ARES-5800 programmable Embedded Controller w/o expansion slot
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

# Dimensions



## Standard Accessories

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



## Optional Accessories

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



32 GB SSD mSATA MLC 32GB



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

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



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

PAC-P120W 19V/ 120W AC/DC adapter kit



DRK-001 Din rail mounting kit for EPC-2000 Series



\*CTOS means Configure-to-Order Service.