

ARES-5300 series

Programmable Embedded Controller with Intel® Atom® E3845 processor



Features

- Fanless, Cable-less and Modularized Design
- Wide Range DC Power Input (9 ~ 36V)
- RS-485 Auto-flow Control Supported
- Easy Installation/Maintenance
- Outside accessible CFast Slot

System

CPU	Soldered onboard Intel® Atom™ E3845 1.9GHz processor
Memory	2GB DDR3L SO-DIMM RAM module installed
Graphics	Integrated in Intel® Core
LAN Chipset	2 x Intel i210AT PCIe GbE controllers
Watchdog Timer	1~255 level reset

I/O

Super IO chipset	Fintek F81866
Serial Port	4 x RS-485 ports in the 2x10-pin terminal block (for ARES-5300 only)
Digital IO	8-bit programmable Digital Input/ Output in the 2x10-pin terminal block (for ARES-5300 only)
USB 2.0 Port	4 x USB type A connectors (External) 1 x USB type A connector (Internal)
LAN	2 x RJ-45 Gigabit Ethernet ports
Video Port	1 x DVI/ VGA connector for DVI-D/Analog RGB
KB/MS	USB interface Keyboard/ Mouse via Y-cable
Expansion Bus	1 x Half size Mini-Card socket

Environmental

Operating Temp.	-30 ~ 60°C (-22 ~ 140°F), ambient with air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Relative Humidity	10 ~ 95% @ 60°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
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Power Requirement

Power Input	DC 9~36V input (w/ 2-pin DC input terminal block combine remote power on/off switch)
Power Consumption	TBD

Storage

Type	1 x mSATA socket 1 x Outside accessible CFast slot
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Mechanical

Construction	Aluminum alloy
Mounting	DIN Rail quick release mounting kit and can allow to rotate by 90 degrees
Weight	1555g
Dimensions (WxDxH)	170 x 127 x 70mm

Ordering Information

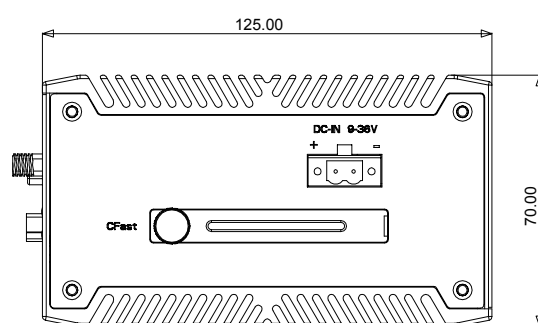
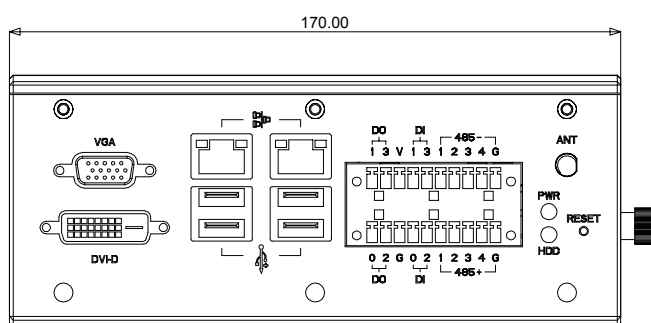
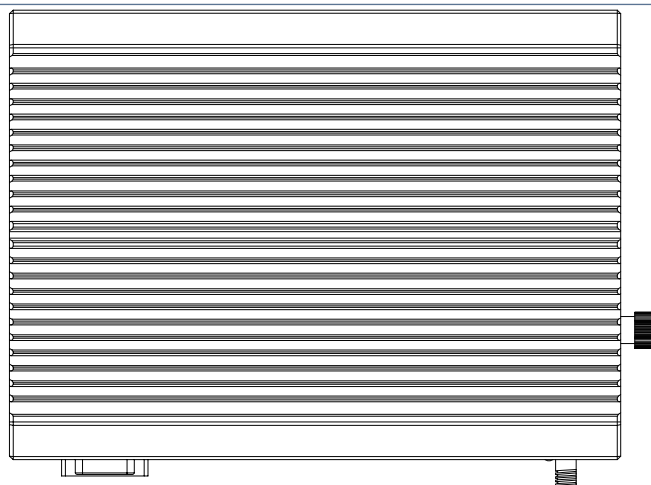
ARES-5300-E3845	ARES-5300 programmable Embedded Controller w/ Intel Atom® E3845
ARES-5300E-E3845 (BTO)	ARES-5300 programmable Embedded Controller w/ Intel Atom® E3845, without DIO & Serial ports

DIN Rail Mount



All specifications are subject to change without notice.

Dimensions



Unit: mm

Standard Accessories

DRK-5300

Din rail mounting kit for EPC-5300 Series

SPCC+Ni, Al6063

Din Rail 35 mm



Optional Configuration (CTOS * Kit)

PAC-B065W-1

65W AC/DC adapter kit

19VDC, 3.4A, 65W AC/DC adapter kit



WIFI-IN1300

Intel Centrino Advanced-N 6205 WiFi module w/ 20cm internal wiring



ANT-H11

1 x 2dBi HSUPA antenna



ANT-D11

1 x WiFi Dual-band 2.4G/5G antenna



MM-3L-2G

DDR3L-1333 4GB SDRAM

MM-3L-4G

DDR3L-1333 2GB SDRAM

16GB SSD

mSATA MLC 16GB

32GB SSD

mSATA MLC 32GB



*CTOS means Configure to Order Service.

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