

# 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

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

## I/O

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

## Environmental

<b>Operating Temp.</b>	-30 ~ 60°C (-22 ~ 140°F), ambient with air flow
<b>Storage Temp.</b>	-40 ~ 85°C (-40 ~ 185°F)
<b>Relative Humidity</b>	10 ~ 95% @ 60°C (non-condensing)
<b>Vibration</b>	5~500Hz 3G rms X,Y,Z axis w/SSD, according to IEC 68-2-64  40G peak acceleration (11 m sec. duration), operation
<b>Shock &amp; Crash</b>	60G peak acceleration (11 m sec. duration), non operation  According to IEC 68-2-27

## Qualification

<b>Certification</b>	CE, FCC Class A
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## Power Requirement

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

## Storage

<b>Type</b>	1 x mSATA socket 1 x Outside accessible CFast slot
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## Mechanical

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

## Ordering Information

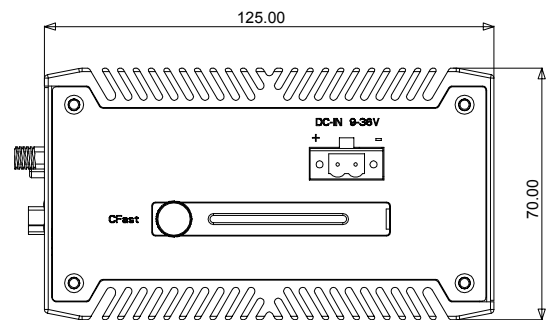
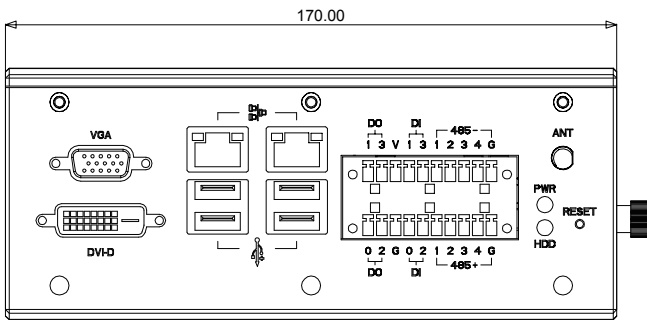
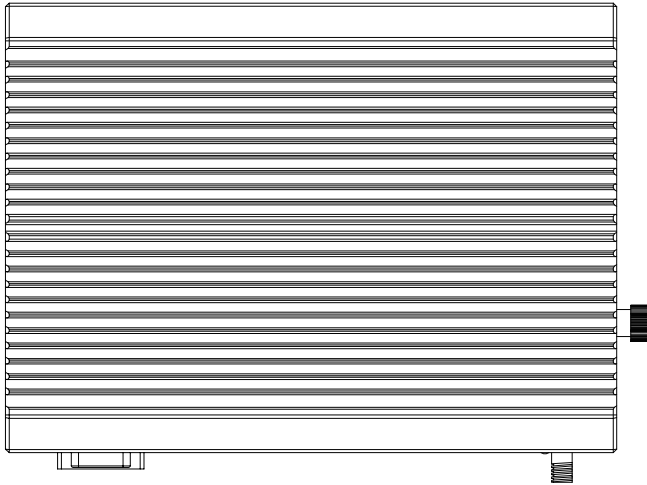
<b>ARES-5300-E3845</b>	ARES-5300 programmable Embedded Controller w/ Intel Atom® E3845
<b>ARES-5300E-E3845 (BTO)</b>	ARES-5300 programmable Embedded Controller w/ Intel Atom® E3845, without DIO & Serial ports

## 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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