

# ARES-5423-TP

Programmable Embedded Controller with Intel® Atom™ D2550



## Features

- **Less Cable, Fanless Design**
- Rich I/O including 6 x COM, DIO, 4 x USB, 2 x LAN
- Outside-viewable LED for Power/HDD/COM/DIO
- Outside-accessible CFast socket
- DIN-rail mount support
- Rugged design for shock/vibration protection
- Easy installation/maintenance

## System

<b>CPU</b>	Soldered onboard Intel® Atom™ D2550 1.86GHz processor
<b>Memory</b>	Soldered onboard 2GB DDR3 SDRAM
<b>Chipset</b>	Intel® NM10
<b>Graphics</b>	Integrated Intel® GMA3650
<b>ATA</b>	1 x Serial ATA port at 300MB/s HDD transfer rate
<b>LAN Chipset</b>	2 x Realtek 8111 GbE controllers
<b>Watchdog Timer</b>	1~255 levels reset

## I/O

<b>Serial Port</b>	2 x RS-232 ports in terminal block 4 x RS-232/485 configurable ports in terminal block
<b>USB Port</b>	4 x USB 2.0 ports
<b>LAN</b>	2 x RJ-45 ports
<b>Video Port</b>	1 x DB-15 female connector for Analog RGB
<b>DIO Port</b>	1 x 8-bit digital I/O, 4-in and 4-out, in terminal block
<b>Expansion Bus</b>	1 x Mini-card slot interconnected with SIM card socket for optional WiFi or HSUPA module

## Environmental

<b>Operating Temp.</b>	-10 ~ 60°C (14 ~ 140°F), ambient w/ air flow
<b>Storage Temp.</b>	-20 ~ 80°C (-4 ~ 176°F)
<b>Relative Humidity</b>	10 ~ 90% @ 60°C (non-condensing)
<b>Vibration</b>	3 Grms, 5~500Hz, random operation
<b>Shock</b>	Operating 40G (11ms), Non-operating 80G with CF/SSD

## Qualification

**Certification** CE, FCC Class A

## Power Requirement

**Power Input** DC 9~36V input (w/ 1 x 2-pin DC input terminal block)

**Power Consumption** 17W (Typical.)

## Storage

<b>Type</b>	1 x 2.5" drive bay for HDD/SSD 1 x outside-accessible CFast socket
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## Mechanical

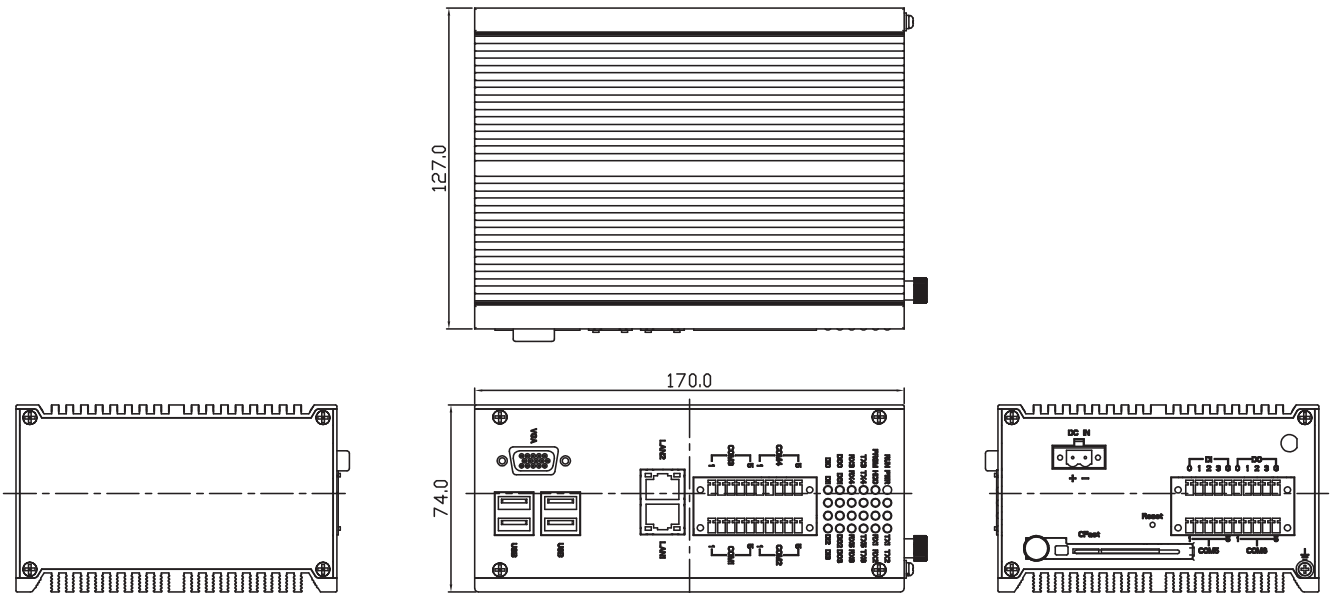
<b>Construction</b>	Whole Aluminum chassis
<b>Mounting</b>	DIN-rail mount
<b>Weight</b>	1.4 kg (2.4 lb) (Barebone)
<b>Dimensions (W x D x H)</b>	170 x 127 x 74 mm (6.69" x 4.9" x 2.91")

## Ordering Information

**ARES-5423-TP** Barebone system w/ Intel® Atom™ D2550 processor and 2GB DDR3 SDRAM



## Dimensions



## Optional Accessories

**PAC-B065W-1**

19V/3.4A 65W AC/DC adapter kit



## Optional Configuration (CTOS\* Kit)

**SSD-25032**

Memoright 2.5" 32GB SATAII SSD Kit



**HSPA-SI1400**

HSUPA 3.75G module kit & internal wiring



**WIFI-IN1300**

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



**ANT-D11**

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



**ANT-H11**

1 x 2dBi HSUPA antenna



\*CTOS means Configure-to-Order Service.

## » Example of ARES-5423 mounted on DIN rail

