

ARES-8650

Programmable Embedded Controller with Intel® Celeron® 827E / Intel® Atom™ D2550



Features

- Less Cable, Fanless Design
- Flexible Modular Design
- Dual DVI Output
- Anti-spark Power Circuit (UL Class 1 Div. 2 Compliant)
- Outside-accessible Push-pull CFAST Socket
- Isolated Serial Ports (RS-232/485)
- 2 x Mini PCIe, 1 x PCI or 1 x PCIe x 1
- SMA Antenna Holes for Optional WiFi Function
- 9~36V Wide Range DC Input

System

CPU	Intel® Celeron® 827E 1.4GHz processor
	Intel® Atom™ D2550 1.86GHz processor
Memory	2GB DDR3 SO-DIMM memory module installed
	2 x DDR3 SO-DIMM sockets, supporting 1333/1066MHz SDRAM up to 8GB (827E)
	1 x DDR3 SO-DIMM socket, supporting 1066/800 MHz SDRAM up to 4GB (D2550)
Chipset	Intel® HM65 for 827E
	Intel® NM10 for D2550
LAN Chipset	1 x Intel® 82583V GbE controller
	1 x Intel® 82579LM GbE PHY
Watchdog Timer	1~255 levels reset

Storage

1st Device	1 x outside-accessible CFAST slot
2nd Device	1 x outside-accessible 2 nd CFAST slot (default), or 1 x 2.5" Drive Bay (included in Standard Accessories)

Power System

Power Input	DC 9~36V
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Certification

EMC / EMI	CE, FCC Class A
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External I/O

Serial Ports	2 x RS-232 and 2 x isolated RS-232/485 ports, all are DSUB 9-pin
USB Ports	4 x Type-A USB ports
LAN	2 x RJ-45 GbE ports
DVI	1 x DVI-I connector
	1 x DVI-D connector
WiFi	2 x SMA antenna holes for optional Wi-Fi function

Expansion

CF Type	1 x outside-accessible push-pull CFAST socket
Expansion Bus	2 x Mini-card sockets
	1 x PCI 32-bit slot (default) or 1 x PCIe x1 slot (included in Standard Accessories)

Mechanical

Mounting Type	VESA-75/100 Mounting
Chassis	Aluminum + SECC
Dimension (W x D x H)	259.0 x 176.0 x 58.0 mm (10.20" x 6.93" x 2.28")
Weight (Net)	3.2 kg (7.05 lb)

Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F)
Storage Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% RH @60°C (non-condensing)
Vibration	5 ~ 500Hz, 3Grms Random (with CFAST/SSD)
Shock	Operating 15G, 11ms Non-operating 40G, 11ms (with CFAST/SSD)

OS Support

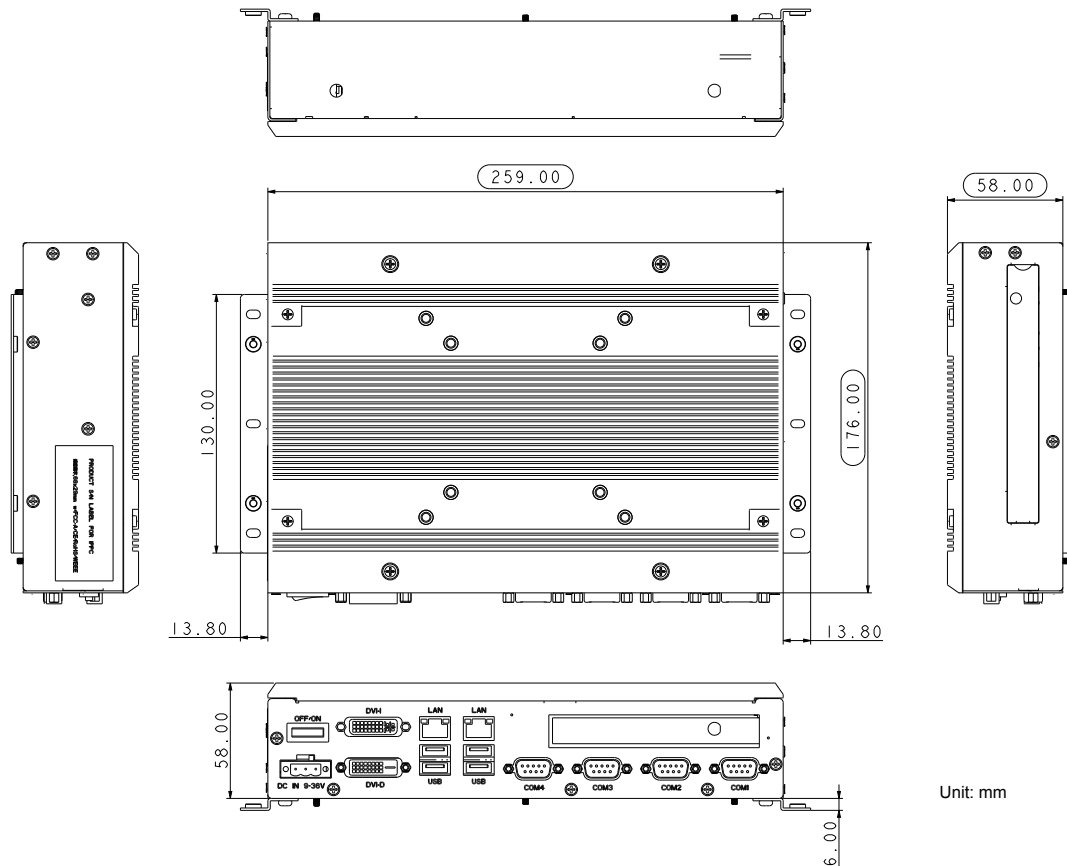
Windows XP Embedded / Windows XP Professional / Windows Embedded 7 Professional / Windows Embedded 7 Standard

Ordering Information

ARES-8650-827E	Intel® Celeron® 827E Box System w/ 2GB memory
ARES-8650-D2550	Intel® Atom™ D2550 Box System w/ 2GB memory



Dimensions

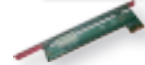


Standard Accessories

EPC-6300 HDD Bracket 2.5" HDD/SSD bracket



SCDB-1395 PCIe x1 riser card



Optional Accessories

PAC-P120W-FSP 19V/5.96A 120W AC/DC adapter kit

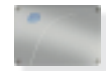


PAC-P065W 19V/3.4A 65W AC/DC adapter kit



Optional Configuration (CTOS* Kit)

SSD-25040 Intel® 2.5" 40GB SATAII SSD kit



WIFI-IN1350 Intel® Centrino® Advanced-N 6205 WiFi module w/ 20cm & 30cm internal wiring



ANT-D11 1 x WiFi Dual-band 2.4G/5G antenna



DDR3-1333 2GB SDRAM

DDR3-1333 4GB SDRAM



*CTOS means Configure-to-Order Service.