



ARES-5310

Fanless DIN-Rail Embedded System with Intel® Atom™ x7 / Celeron® Processor



Features

- Intel® Atom™ x7-E3950 / Celeron® N3350 Processor
- 2CH GbE PoE (Power over Ethernet), IEEE 802.3af connectivity
- 4 x USB 3.0/2.0 combo ports
- 32 bit Digital I/O with 2kV Isolation
- DIN-rail mount & Wall mount compatibility
- Wide-range operating temperature from -40 °C to 70 °C
- Power on/off delay control / configurable ignition power control

Industrial Automation

System	
CPU	Soldered onboard Intel® Atom™ x7-E3950 / Celeron® N3350 Processor, Max.12W TDP
Memory	1 x 204-pin DDR3L SO-DIMM sockets, supporting 1866MHz SDRAM up to 8GB
Chipset	SoC
Graphics	Intel® HD Graphic 505
LAN Chipset	3 x Intel® i211AT PCIe controller (Co-Layout i210-IT)
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	4 x RS232 (Default)/422/485 (DB-9 male connector) (Switch via BIOS)
USB Port	4 x USB 3.0/2.0 (Type A connector)
LAN	3 x RJ-45 ports for GbE LAN (For -E3950A & -N3350A) 2 x RJ-45 ports for PoE IEEE802.3af + 1 x GbE LAN (For -E3950P & -N3350P)
Video Port	1 x HDMI connector (Up to 3840 x 2160@30Hz) 1 x VGA connector (Up to 1920 x 1080@60Hz)
Digital I/O	4 x DI, 4 x DO (For -E3950A & -N3350A) 16 x DI, 16 x DO w/ 2kV isolation (For -E3950P & -N3350P)
Expansion Bus	1 x Mini PCIe slot (PCIe x1+ USB2.0, Full size) 1 x Mini PCIe slot (USB2.0, Full size)
SIM	1 x internal on-board nano SIM slot
Storage	
Type	64GB eMMC on-board 1 x 2.5" HDD/SSD tray (For -E3950A & -N3350A) 1 x M.2 M-Key, 2242, SATA3.0 (For -E3950P & -N3350P)
Environmental	
Operating Temp.	-40 ~ 70 °C (-40 ~ 158°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 176°F)
Operating Humidity	10-95% @ 70°C (non-condensing)

Vibration	5~500Hz 3 Grms X,Y,Z axis w/ eMMC, according to IEC 68-2-64
Shock & Crash	10G peak acceleration (11 m sec. duration), operation
	30G peak acceleration (11 m sec. duration), nonoperation
	According to IEC 68-2-27

Qualification

Certification	CE, FCC Class A, E13
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Power Requirement

Power Input	DC 9~36V (4 pin DCin terminal block: V+, V-, SW-, SW+)
Ignition Switch	2-pin terminal block: IGN & GND

Power Consumption	Max. 65W
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Mechanical

Construction	Metal + Aluminum Alloy
Mounting	DIN-rail / Wall Mount
Weight	1.7Kg
Dimensions (W x D x H)	180 x 125 x 70 mm (7.07" x 4.9" x 2.75")

OS Support

Windows 10 IoT	
Linux: Ubuntu (Kernel: 3.1X)	

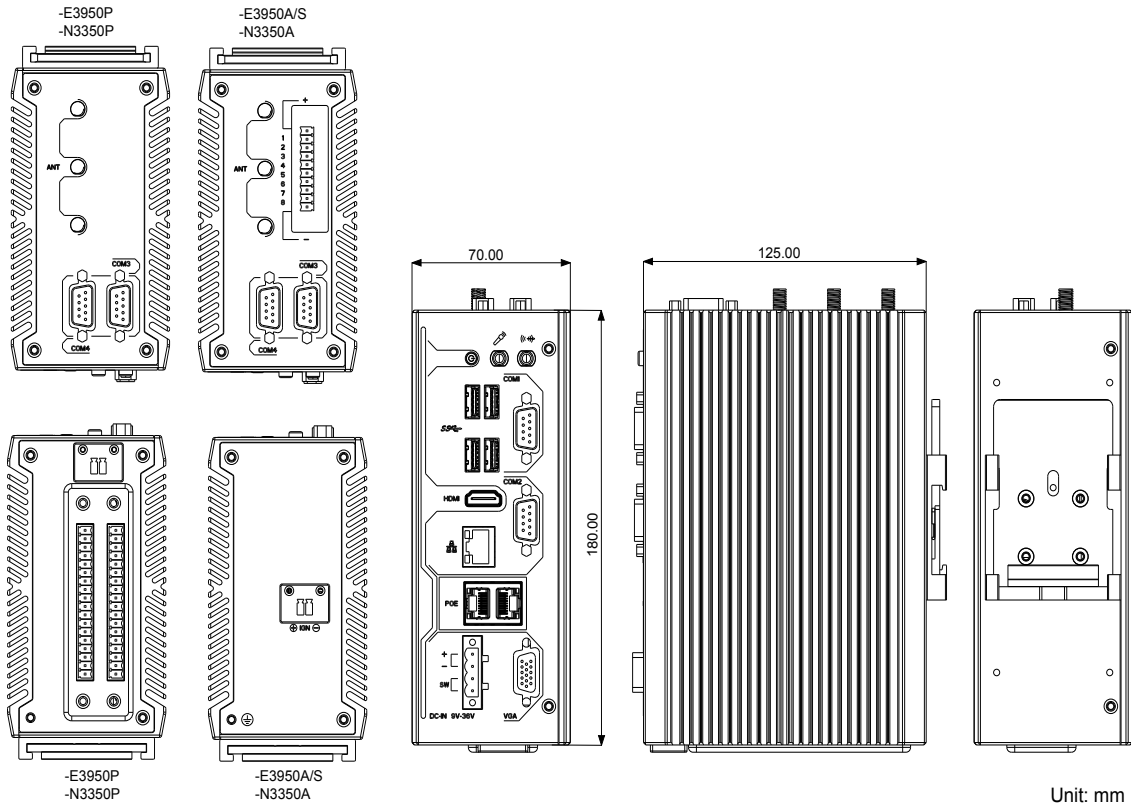
Ordering Information

ARES-5310-E3950A	ARES-5310 w/ E3950, 1 x HDMI, 1 x VGA, 4 x COM, 4 x DI/DO, 3 x GbE LAN, 4 x USB3.0, 1 x 64GB eMMC, and 1 x 2.5" HDD/SSD tray
ARES-5310-E3950P	ARES-5310 w/ E3950, 1 x HDMI, 1 x VGA, 4 x COM, 16 x DI/DO, 2 x PoE, 1 x GbE LAN, 4 x USB3.0, 1 x 64GB eMMC, and 1 x M.2 M Key storage
ARES-5310-N3350A (BTO)	ARES-5310 w/ N3350, 1 x HDMI, 1 x VGA, 4 x COM, 4 x DI/DO, 3 x GbE LAN, 4 x USB3.0, 1 x 64GB eMMC, and 1 x 2.5" HDD/SSD tray
ARES-5310-N3350P (BTO)	ARES-5310 w/ N3350, 1 x HDMI, 1 x VGA, 4 x COM, 16 x DI/DO, 2 x PoE, 1 x GbE LAN, 4 x USB3.0, 1 x 64GB eMMC, and 1 x M.2 M Key storage

All specifications are subject to change without notice.











Dimensions



Standard Accessories

DRK-002	AI6063	
DIN Rail mounting kit for ARES-5300	DIN Rail 84 x 60 x 9mm	

Optional Configuration (*CTOS Kit)

PAC-120W6B-FSP	19V/6.3A, 120W AC/DC adapter kit (For -E3950P & -N3350P)	
PAC-P060W-02	12V/5A, 60W AC/DC adapter kit (For -E3950A & -N3350A)	
WIFI-AT4550	Atheros QCNFA324 Wi-Fi module w/ 2*30cm internal wiring	
ANT-D11	1 x Wi-Fi Dual-band 2.4G/5G antenna	
ANT-H11	2dBi HSUPA ANTENNA KIT	
LTE-1450	LTE Quectel EC25-E Cat 4 Mini-PCIe Wireless Kit(excluded North of America/ Euro)	
MK-3CL-2G/4G/8G DIMM Memory	2G/4G/8G DDR3L Memory with heat sink kit	
WMK-1973	Wall mounting kit for ARES-1973/5310	

*CTOS means Configure-to-Order Service.

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US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660