

ARES-1980

Distribué par :



ANTEOR / DIPM
2, rue Pablo Picasso
78114 Magny-les-Hameaux
France
Tél. : +33 (0)1 61 37 07 01
E-mail : contact@anteor.com

Fanless Rugged Controller with 11th Gen. Intel® Core™ i Processor (Tiger Lake UP3)



Features

- Onboard Intel® Core™ i Processor (Tiger Lake UP3)
- Support 2 x 260-pin DDR4 SO-DIMM sockets
- Support 5G (Sub-6G) module, M.2 NVMe SSD Gen3 x4, USB 3.2 Gen2, and 2.5 GbE LAN
- Rich I/O: 4 x COM/ 3 x LAN/ 4 x USB3.2 Gen 2/ Remote PWR
- Support Triple-display (DVI-D/HDMI/DP)
- Wide Power Input: 9~36 VDC
- Power on/off delay control / configurable ignition power control
- Support DirectX 12

System

CPU	Soldered onboard Intel® i7/ i5/ i3 Processor (Default: i5 CPU Tiger Lake-U)
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 3200MHz SDRAM total up to 64GB
Chipset	SoC
Graphics	Intel® Iris® Xe Graphics
LAN Chipset	2 x Intel® i211AT PCIe controller 1 x Intel® 225LM PCIe controller (iAMT support w/ i5/i7 skus)
Watchdog Timer	1~255 levels reset

I/O

Serial Port	2 x DB-9 connectors for RS232 2 x DB-9 connectors for RS232/422/485 (RI/5V/12V)
USB Port	4 x USB-A 3.2 Gen2 (2 w/ independent full speed) 1 x USB-A 2.0 onboard for encryption dongle
LAN	2 x RJ-45 ports for GbE LAN (PoE complies with IEEE802.3af) 1 x RJ-45 ports for 2.5 GbE LAN (iAMT support w/ i5/i7 SKUs)
Video Port	1 x HDMI 2.0b, up to 3840x2160@60Hz 1 x DisplayPort 1.4, up to 3840x2160@60Hz 1 x DVI-D, up to 1920x1080@60Hz
Audio	1 x Mic-in & 1 x Line out
Expansion Bus	1 x mPCIe (PCIe x1 + USB 2.0, Full Size) w/ 1 x nano SIM card slot 1 x M.2 B-Key 2242/3042/3052 (PCIe x2 + USB 3.0) w/ 2 x nano SIM card slots supporting 5G/LTE module 1 x M.2 E-Key 2230 (CNVi + USB 2.0) slot for WiFi / BT **Support CNVi modules only**
Digital I/O	8 x DI & 8 x DO w/ 1.5KV isolation
Multi-Serial Bus	I ² C/SPI/UART/GPIO (w/ 3.3 or 5V) via DB-26
Others	10 x Antenna Holes are reserved

Storage

Type	1 x M.2 M-Key 2242/2280 slot (PCIe Gen III x4 + SATAIII) 1 x 2.5" HDD/SSD tray (SATA III + SATA PWR connector)
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Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow
Storage Temp.	-40 ~ 70°C (-40 ~ 158°F)
Operating Humidity	10-95% @ 60°C (non-condensing)
Vibration	5~500Hz 3 Grms X,Y,Z axis w/ SSD, according to IEC 60068-2-64 40G peak acceleration (11 m sec. duration), operation w/ SSD
Shock	80G peak acceleration (11 m sec. duration), nonoperation w/ SSD According to IEC 60068-2-27

Qualification

Certification	CE/ FCC Class A
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Power Requirement

Power Input	DC 9~36V (3-pin terminal block: V+, V-, GND)
Max. Power Consumption	120W
Remote Control	1x3-pin terminal block for remote control and PWR LED output
Power Ignition	IGN +/-

Mechanical

Construction	Sheet Metal + Aluminum Alloy
Mounting	Wall-mount (standard) DIN-rail or VESA mount (optional w/ CTOS bracket)
Weight	3.7kg
Dimensions (W x D x H)	210 x 180 x 70 mm

OS Support

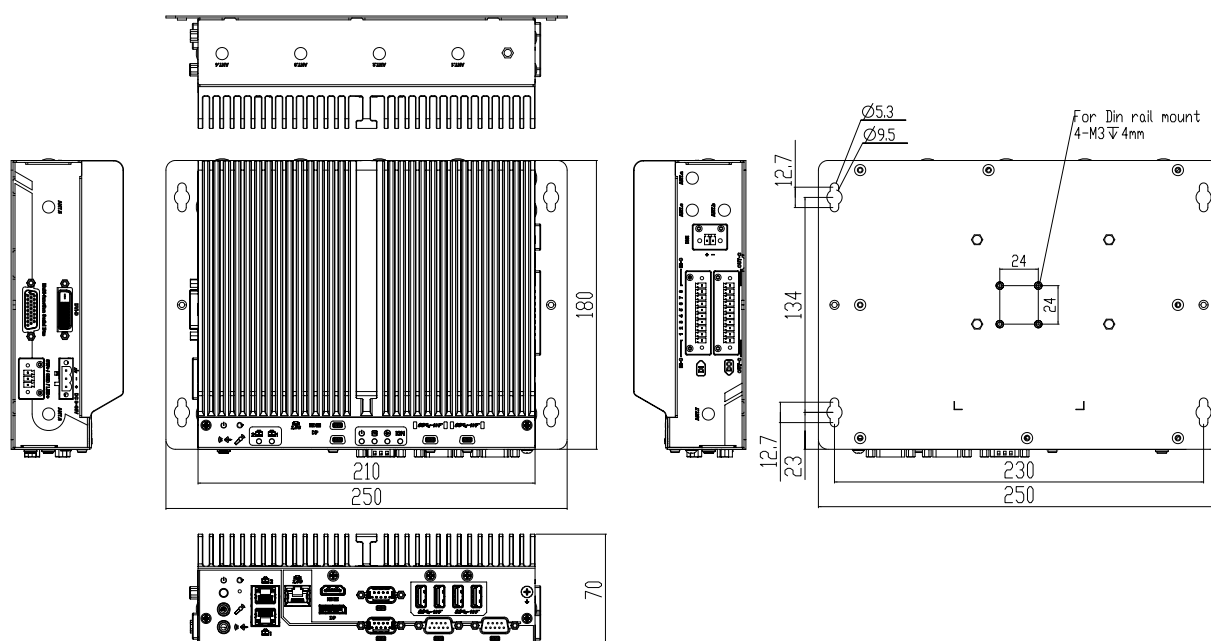
Windows 10 IoT	
Ubuntu 20.04	

Ordering Information

ARES-1980-1115G4E (BTO)	ARES-1980 w/ i3-1115G4E, 2*DDR4, 4*COM, 4*USB3.2 Gen2, 1*onboard USB2.0, 2*PoE, 1*2.5GbE LAN, 1*HDMI, 1*DVI-D, 1*DP, 1*mPCIe slot, 1*M.2 B-Key, 1*M.2 M-Key, 1*2.5" SSD/HDD tray, 1*M.2 E-Key, 2*SIM, 1*Multi Serial BUS, 8*DI+8*DO, 1*MIC-in and 1*Line-out
ARES-1980-1145G7E	ARES-1980 w/ i5-1145G7E, 2*DDR4, 4*COM, 4*USB3.2 Gen2, 1*onboard USB2.0, 2*PoE, 1*2.5GbE LAN, 1*HDMI, 1*DVI-D, 1*DP, 1*mPCIe slot, 1*M.2 B-Key, 1*M.2 M-Key, 1*2.5" SSD/HDD tray, 1*M.2 E-Key, 2*SIM, 1*Multi Serial BUS, 8*DI+8*DO, 1*MIC-in and 1*Line-out
ARES-1980-1185G7E	ARES-1980 w/ i7-1185G7E, 2*DDR4, 4*COM, 4*USB3.2 Gen2, 1*onboard USB2.0, 2*PoE, 1*2.5GbE LAN, 1*HDMI, 1*DVI-D, 1*DP, 1*mPCIe slot, 1*M.2 B-Key, 1*M.2 M-Key, 1*2.5" SSD/HDD tray, 1*M.2 E-Key, 2*SIM, 1*Multi Serial BUS, 8*DI+8*DO, 1*MIC-in and 1*Line-out

BTO means Build-to-Order.

Dimensions



Optional Configuration (*CTOS Kit)

MM-4C-4G/8G/16G DIMM Memory	4G/8G/16G DDR4 Memory	
PAC-120W6B-FSP-ES	19V/6.3A, 120W AC/DC Adapter Kit	
WIFI-AT4550	Atheros QCNFA324 mPCIe Wi-Fi+BT Module Kit (w/ 2 x 30cm RF Cable)	
ANT-D11	1 x Wi-Fi Dual-band 2.4G/5G Antenna Kit	
LTE-4450	Quectel EG25-G mPCIe LTE Cat 4 Module Kit (for Global, w/ 1 x 25cm RF Cable)	
ANT-H11	1 x 2dBi HSUPA Antenna Kit	
DRK-002	DIN Rail Mounting Kit for ARES Series	

*CTOS means Configure-to-Order Service.