



ARES-1970-E

Fan-Less Embedded Controller with 6th Generation Intel® Core™ Processors



Features

- 6th generation Intel® SkyLake-U platform
- Compact & fan-less design
- 4 x USB3.0 combo ports
- Dual Gbe Ethernet LANs connectivity
- Multi COMs
- 4 x PoE Gbe Ethernet w/ 802.3af compliant designed for GigE camera
- Raid 0/1 support

System	
CPU	Soldered onboard Intel® Core™ i5-6300U , 2.4GHz 3M L2 Cache, 15W TDP
	Soldered onboard Intel® Core™ i7-6600U , 2.6GHz 4M L2 Cache, 15W TDP
	Soldered onboard Intel® Core™ i3-6100U , 2.3GHz 3M L2 Cache, 15W TDP
Memory	1 x 260-pin DDR4 SO-DIMM socket, supporting 2133MHz SDRAM up to 8GB, 1 x 4GB DDR4 SO-DIMM Pre-installed
Chipset	Intel® SoC
Graphics	Integrated Intel® HD Graphics 520
LAN Chipset	1 x Intel® i219LM PCIe controller w/ iAMT 11.0 (except i3-6100U)
	1 x Intel® i210IT PCIe controller
	4 x Intel® i210IT PCIe controller for PoE
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	4 x RS-232/422/485 ports
USB Port	4 x USB3.0/2.0 ports
	2 x USB2.0 Ports
Video Port	1 x HDMI 1 x VGA
Audio	Mic-in / Line-out
D-IO	16 x DI, 16 x DO
Expansion Bus	1 x mSATA (SATA, Full Size)
	1 x mPCIe (PCIex1+USB2.0, Full Size)
	1 x mPCIe (PCIex1+USB2.0, Half Size)
Environmental	
Operating Temp.	-20 ~ 55°C (-4 ~ 131°F)
Storage Temp.	-40 ~ 80°C (-40 ~ 176°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	5~500Hz 3G rms X,Y,Z axis w/SSD, according to IEC 68-2-64

Shock & Crash	10G peak acceleration (11 m sec. duration), operation
	30G peak acceleration (11 m sec. duration), non operation
	According to IEC 68-2-27

Qualification

Certification	CE, FCC Class A
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Power Requirement

Power Input	DC 19~36 Input (3-PIN Terminal Block)
Power Consumption	80W (w/o I/O card)

Storage

Type	1 x mSATA
	2 x 2.5" removable drive bays for SATA SSD, support RAID 0/1 (except i3-6100U)

Mechanical

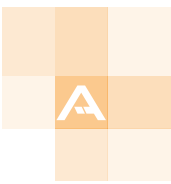
Construction	Aluminum alloy
Mounting	Wall-Mount
Weight	3.73kg (8.22lb)
Dimensions (W x D x H)	141 x 112 x 272 mm (5.55" x 4.41" x 10.71")

OS Support

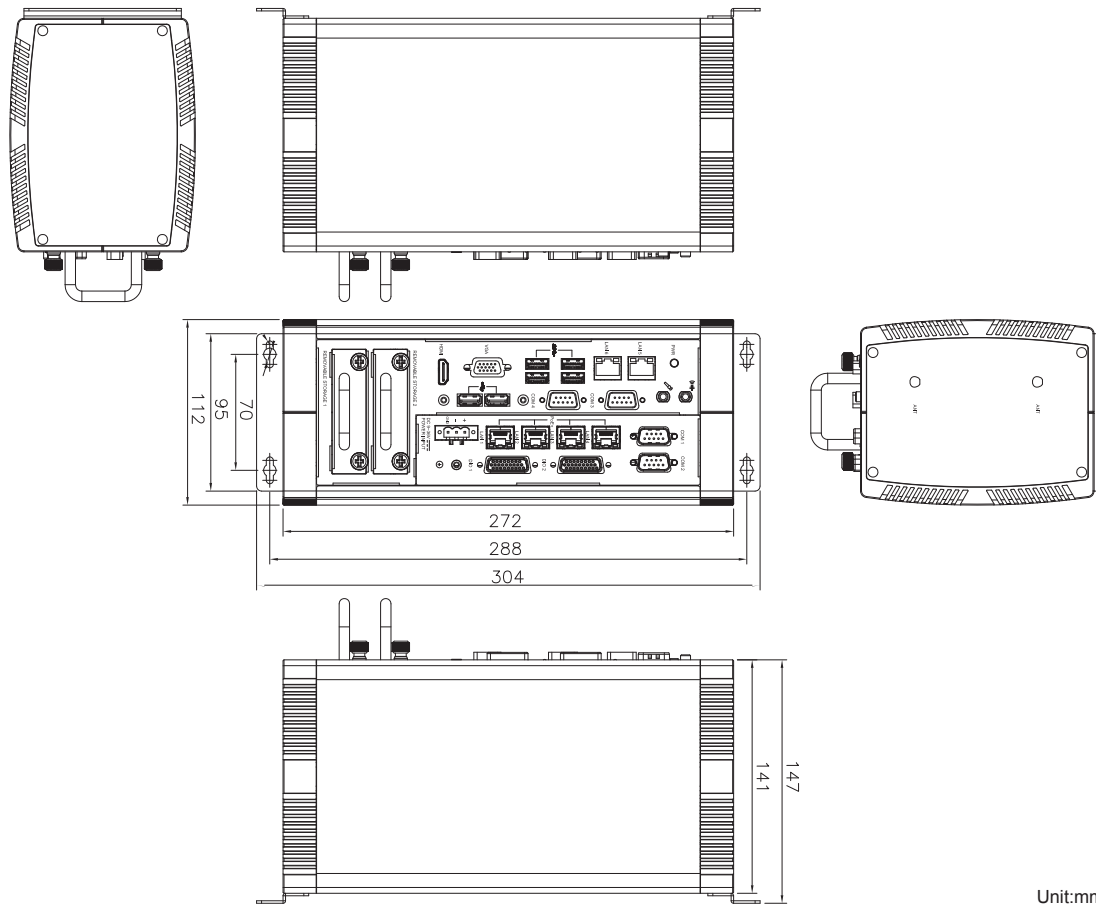
Windows 7 / Windows 8.1 / Windows 10, Linux: Ubuntu (Kernel: 3.1X)
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Ordering Information

ARES-1970-E-6300U (STD)	ARES-1970-E w/6th Intel® Core i5-6300U and 4GB memory, w/o storage
ARES-1970-E-6600U (BTO)	ARES-1970-E w/6th Intel® Core i7-6600U and 4GB memory, w/o storage
ARES-1970-E-6100U (BTO)	ARES-1970-E w/6th Intel® Core i3-6100U and 4GB memory, w/o storage



Dimensions



Unit:mm

Standard Accessories

WMK-1970 Wall-mount kit for ARES-1970-E



Optional Accessories

PAC-120W6B-FSP 19V/6.32A 120W AC/DC adapter kit



32GB mSATA mSATA MLC 32GB



150GB SSD Intel 2.5" 150GB SATAIII SSD kit



MM-4C-8G 260-pin DDR4-2133 8GB SO-DIMM



**CTOS means Configure-to-Order Service.*

Mouser Electronics

Authorized Distributor

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