



ARES-1973C

Machine Vision Controller with 6th / 7th Gen. Intel® Core™ i7/i5/i3 / Celeron® Processor



Features

- Socket LGA1151 for Intel®Core™ i7/i5/i3 / Celeron® Processor
- 9-CH GbE Ethernet LANs connectivity
- 4 x USB 3.0 combo ports
- Supports dual-display for 1 x VGA and 1 x DisplayPort
- Internal USB 2.0 Type-A connector

System	
CPU	Socket LGA1151 for 6 th / 7 th Intel® Core i7 / i5 / i3 / Celeron®, Max.35W TDP
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2133MHz SDRAM up to 32GB
Chipset	Intel® C236
Graphics	Intel® Gen9 Graphics DX 11/12, OGL4.3/4.4
LAN Chipset	1 x Intel® i219LM PCIe controller w/ iAMT 11.0 (except Core i3 and Celeron series)
	8 x Intel® i211AT PCIe controller (Co-Layout i210-IT)
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x RS232/422/485 DB-9 ports
	2 x RS232 ports
USB Port	4 x USB 3.0/2.0 Type A connectors
	4 x USB 2.0 Type A connectors
	1 x Vertical USB 2.0 (type A) internal
LAN	9 x RJ-45 ports for Giga Lan
Video Port	1 x DisplayPort 1.2, up to 4K (UHD)
	1 x VGA
Storage	1 x SATA 3.0 Port and 1 x SATA Power connector
	1 x M.2 M-key for SSD, 2242/2280 (PCIe x4+SATA3.0)
Digital I/O	4 x DI, 4 x DO
Expansion Bus	1 x M.2 M-key for SSD, 2242/2280 (PCIe x4+SATA3.0)
Environmental	
Operating Temp.	-20 ~ 50 °C (-4 ~ 131°F), ambient w/ air flow
Storage Temp.	-30 ~ 80°C (-22 ~ 176°F)

Operating Humidity	10-95% @ 50°C (non-condensing)
Vibration	5~500Hz 3 Grms 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), nonoperation
	According to IEC 68-2-27

Qualification

Certification	CE, FCC Class A
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Power Requirement

Power Input	DC 12~24V
Power Consumption	Max. 90W (w/o I/O card)

Storage

Type	1 x 2.5" internal drive bay for HDD/SSD
	1 x M.2 M-key for SSD, 2242/2280

Mechanical

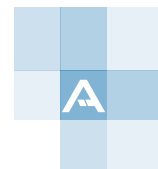
Construction	Metal + Aluminum Alloy
Mounting	Wall-mount / DIN-rail
Weight	4.2Kg
Dimensions (W x D x H)	254 x 170 x 94 mm (10" x 6.7" x 3.7")

OS Support

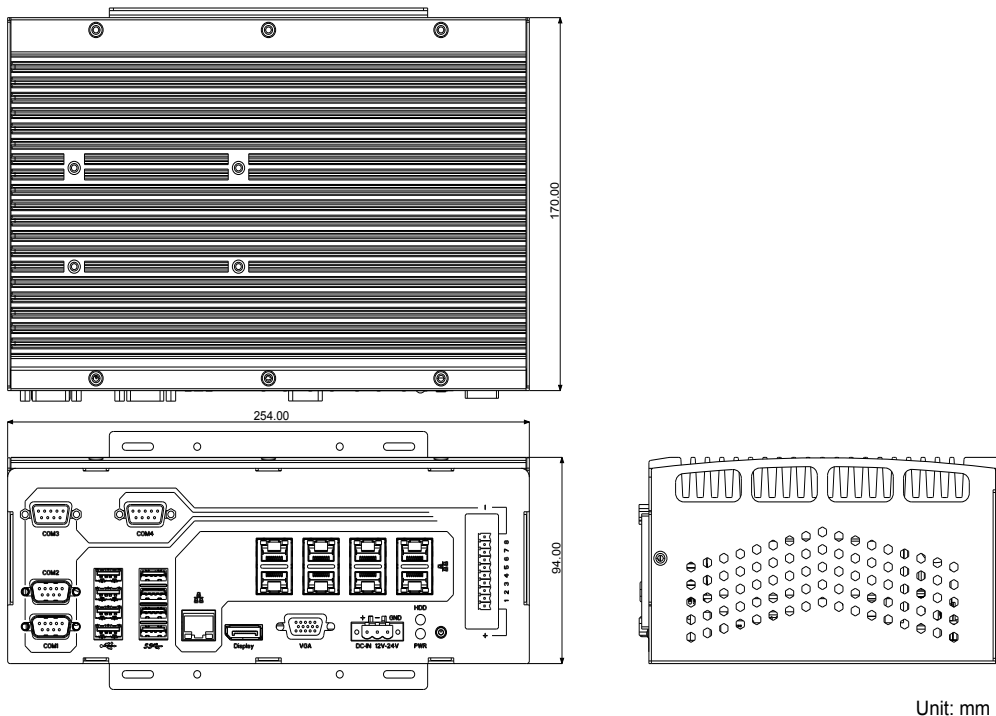
Windows 10 IoT (For 7th Gen Intel® Processor)	
Window 7/ Window8.1/ Windows 10 IoT (For 6th Gen Intel® Processor)	
Linux: Ubuntu (Kernel: 3.1X)	

Ordering Information

ARES-1973C-4898	ARES-1973 w/ C236, 4 x COM, 4 x DI/DO, 9 x GbE LAN and 8 x USB with Fan-less version
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Dimensions



Standard Accessories

WMK-1973 Wall-mount kit for ARES-1973



Optional Accessories

64/128/256GB SSD 2.5" SSD MLC 64/128/256GB Kit



MM-4C-4G/8G/16G DDR4-2133 4GB/8GB/16GB SDRAM Kit



Core™ i7-7700T Intel® 7th Gen. Core™ i7-7700T processor, L2/8M, 2.9G



Core™ i3-7101TE Intel® 7th Gen. Core™ i3-7101TE processor, L2/3M, 3.4G

PAC-180W6C-FSP R1.1 24V/7.5A 180W AC/DC adapter kit



DRK-002 Din rail mounting kit for ARES-1973



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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