



# ARES-1973H

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



## Features

- Socket LGA1151 for Intel®Core™ i7/i5/i3 / Celeron® Processor
- 4-CH GbE PoE (Power over Ethernet), IEEE 802.3af compliant designed for GigE camera
- 16 x DI/DO with 1.5KV isolation protection
- Supports dual-display for 1 x VGA and 1 x DisplayPort
- Internal USB 2.0 Type-A connector

Industrial Automation

<b>System</b>	
CPU	Socket LGA1151 for 6 <sup>th</sup> / 7 <sup>th</sup> Intel® Core i7 / i5 / i3 / Celeron®, Max.65W TDP
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2133MHz SDRAM up to 32GB
Chipset	Intel® H110
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) 4 x Intel® i211AT PCIe controller (Co-Layout i210-IT)
Watchdog Timer	1~255 levels reset
<b>I/O</b>	
Serial Port	2 x RS232/422/485 DB-9 connectors 4 x USB 3.0/2.0 Type A connectors
USB Port	4 x USB 2.0 Type A connectors 1 x Vertical USB 2.0 (type A) internal
LAN	4 x RJ-45 ports for PoE, IEEE802.3af 1 x RJ-45 port 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	16 x DI, 16 x DO (1.5KV isolation protection / DO supports 24V 200mA)
Expansion Bus	1 x M.2 M-key for SSD, 2242/2280 (PCIe x4+SATA3.0)
<b>Environmental</b>	
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 10G peak acceleration (11 m sec. duration), operation
Shock & Crash	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. 150W (w/o I/O card)

## Storage

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

Construction	Metal
Mounting	Wall-mount / DIN-rail
Weight	2.6 Kg
Dimensions (W x D x H)	230 x 155 x 90 mm (9.06" x 6.10" x 3.54")

## OS Support

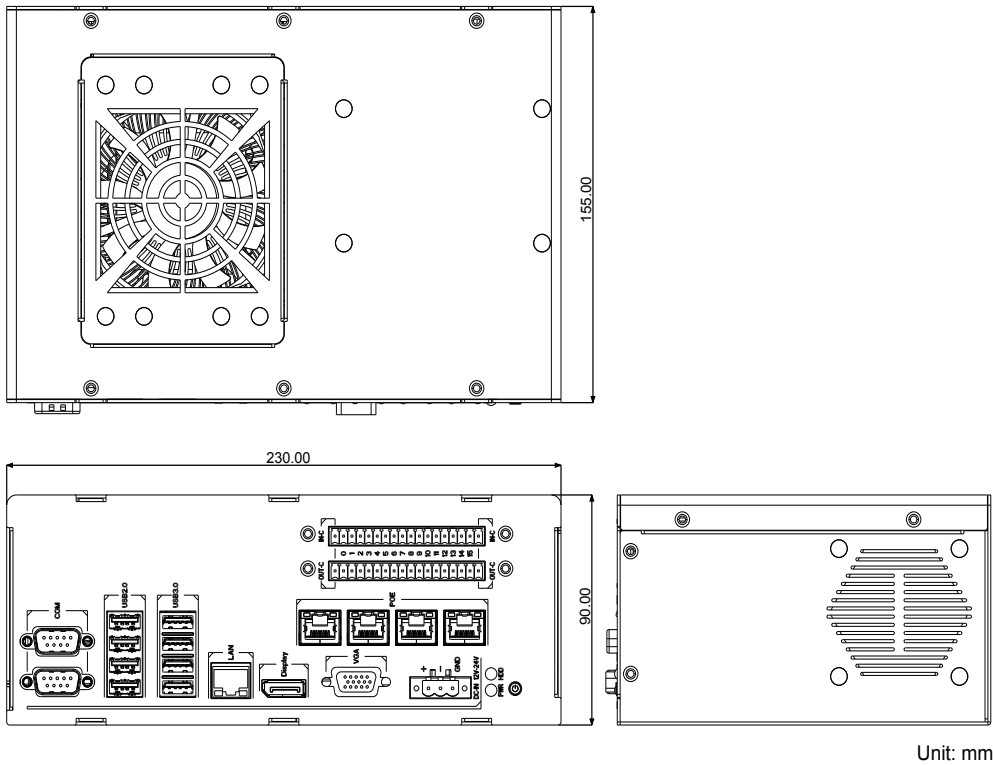
Windows 10 IoT (For 7th Gen Intel® Processor)  
Window 7/ Window8.1/ Windows 10 IoT (For 6th Gen Intel® Processor)  
Linux: Ubuntu (Kernel: 3.1X)

## Ordering Information

ARES-1973H-2WD8F	ARES-1973 w/ H110, 2 x COM, 16 x DI/DO, 1 x GbE LAN, 4 x PoE and 8 x USB
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## Dimensions



Unit: mm

### 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™ i5-7500      Intel® 7<sup>th</sup> Gen. Core™ i5-7500 processor, L2/6M, 3.4G

Core™ i7-6700      Intel® 6<sup>th</sup> Gen. Core™ i7-6700 processor, L2/8M, 3.4G

Core™ i5-6500      Intel® 6<sup>th</sup> Gen. Core™ i5-6500 processor, L2/6M, 3.2G

Core™ i3-6100      Intel® 6<sup>th</sup> Gen. Core™ i3-6100 processor, L2/3M, 3.7G



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



DRK-002      AI6063  
DIN Rail 84 x 60 x 9mm



## 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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