



# ARES-1973C

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
- 9-CH GbE Ethernet LANs connectivity
- 4 x USB3.0 combo ports
- Support Dual-display for 1 x VGA and 1 x DisplayPort
- Internal USB2.0 Type-A connector

System	
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® C236
Graphics	Intel® Gen9 Graphics DX 11/12, OGL4.3/4.4
LAN Chipset	1x Intel® i219LM PCIe controller w/ iAMT 11.0 (except Core i3 and Celeron series) 8x 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 connectors
	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, up to 4K (UHD)
	1 x VGA
Storage	1 x SATA 3.0 Port and 1 x SATA Power connector
	1 x mSATA port
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/mSATA, 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. 120W (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

## Mechanical

Construction	Metal
Mounting	Wall-mount / DIN-rail
Weight	2.6Kg
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-1973C-4898F	ARES-1973 w/ C236, 4*COM,4*DI/DO,9*GbE LAN and 8*USB
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