

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 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 |
|---------------|-----------------|

Power Requirement

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

Storage

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

Mechanical

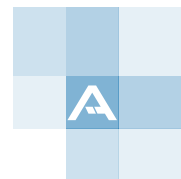
| | |
|------------------------|---------------------------------------|
| Construction | Metal + Aluminum Alloy |
| Mounting | Wall-mount / DIN-rail |
| Weight | 4.2Kg |
| Dimensions (W x D x H) | 254 x 170 x 94 mm (10" x 6.7" x 3.7") |

OS Support

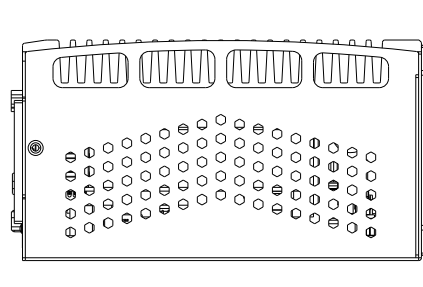
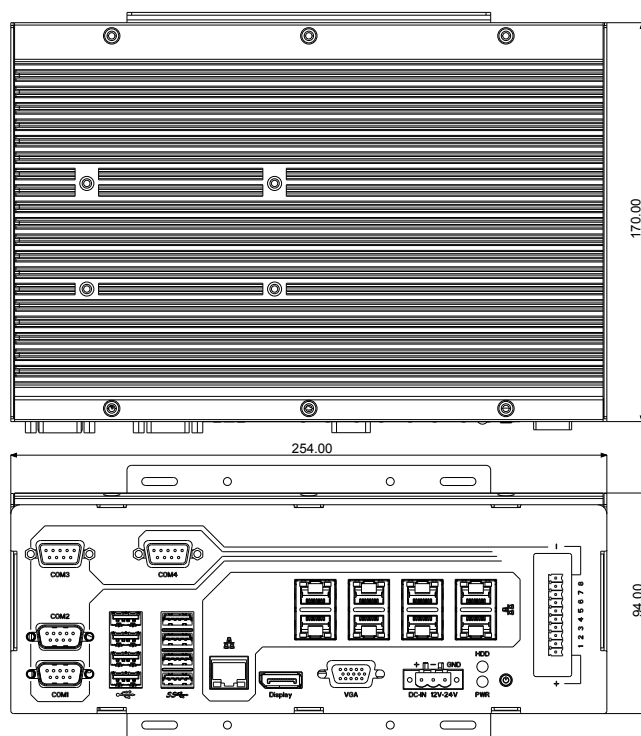
| | |
|--|--|
| Windows 10 IoT (For 7th Gen Intel® Processor) | |
| Window 7/ Window8.1/ Windows 10 IoT (For 6th Gen Intel® Processor) | |
| Linux: Ubuntu (Kernel: 3.1X) | |

Ordering Information

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|-----------------|--|
| 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 |
|-----------------|--|



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™ 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

