

ARES-1965

Machine Vision Controller with 6th Gen. Intel® Core™ Processor (Skylake-U)



Features

- 6th generation Intel® SkyLake-U platform
- 4CH GbE PoE (Power over Ethernet), IEEE 802.3af compliant designed for GigE camera
- 16 x DI/DO with isolation protection
- Support 4 x USB3.0, 2 x RS-232 and 1 x VGA
- Internal USB2.0 Type-A connector

System	
CPU	Soldered onboard Intel® Celeron® 3855U, 1.6GHz 2M L2 Cache, 15W TDP Soldered onboard Intel® Core™ i7-6500U, 2.5GHz / 4M L2 Cache, 15W TDP
Memory	1 x 260-pin DDR4 SO-DIMM socket, supporting 1866/2133MHz SDRAM up to 16GB
Chipset	Intel® SoC Integrated
Graphics	Intel® HD Graphics 510 for 3855U Intel® HD Graphics 520 for i7-6500U
LAN Chipset	1x Intel® i219LM PCIe controller 4x Intel® i211AT PCIe controller for PoE
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x RS232 DB-9 connectors
USB Port	4 x USB 3.0/2.0 Type A connectors 1 x Vertical USB 2.0 (type A) internal
LAN	4 x RJ-45 ports for PoE, IEEE802.3af (30W total power budget) 1 x RJ-45 ports for PHY Giga
Video Port	1 x VGA
Storage	1 x SATA 3.0 Port and 1 x SATA Power connector 1 x mSATA port
Digital I/O	16 x DI, 16 x DO (1.5KV isolation protection / DO output current 24V 200mA)
Expansion Bus	1 x mSATA (SATA, Full size) 1 x Mini PCIe slot (PCIe x 1 + USB2.0, Full size)
Environmental	
Operating Temp.	0 ~ 55 °C (32 ~ 131°F), ambient w/ air flow
Storage Temp.	-20 ~ 60°C (-4 ~ 140°F)

Operating Humidity	10-95% @ 55 °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 9~36V
Power Consumption	Max. 55W (w/o I/O card)

Storage

Type	1 x SATA 3.0 Port and 1 x SATA Power connector 1 x mSATA port
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Mechanical

Construction	Metel + Aluminum Alloy
Mounting	Wall-mount / DIN-rail
Weight	2.3KG
Dimensions (W x D x H)	195 x 140 x 90 mm (7.68" x 5.51" x 3.54")

OS Support

Window 7/ Window 8.1/ Windows 10 IoT
Linux: Ubuntu (Kernel: 3.1X)

Ordering Information

ARES-1965-3855	ARES-1965 w/ Intel® Celeron 3855U, 2*COM, 16-bit*DI/DO, 5*GbE Lan, 5*USB
ARES-1965-6500	ARES-1965 w/ Intel® Core™ i7-6500U, 2*COM, 16-bit*DI/DO, 5*GbE Lan, 5*USB