

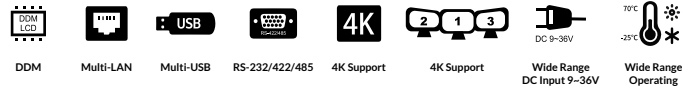
Eagle Eyes-AIMD

6th/7th Generation Intel® Core™ U Series Processor DIN Rail Fanless Box Computer



Features

- 6th/7th gen Intel® platform (formerly Skylake/Kaby Lake), Core™ U series processor
- Intelligent eKit with AI function to monitor system health via DDM
- Special Power Design:
 - Wide voltage 9~36V DC input
 - RVP/OVP/UV/OC/PC support
 - Surge protection: 80V/1ms
 - Power ignition control
- Easy Expansion & Installation:
 - Remote on/off power switch with LED
 - Easily replaceable RTC battery holder
 - 2x SIM push-push slots

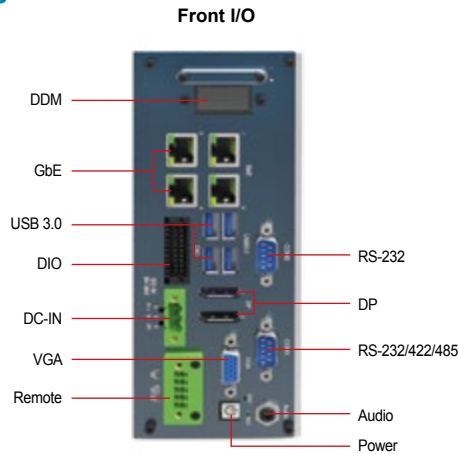


Specifications

System	
6th Gen Intel® Core™ (formerly Skylake U-Series)	Core™ i7-6600U (2/4 Cores, 2.6 GB/3.4 GHz, 4M Cache, 15W TDP) Core™ i5-6300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M Cache, 15W TDP) Core™ i3-6100U (2/4 Cores, 2.3 GHz, 3M Cache, 15W TDP) Celeron® 3955U (2/2 Cores, 2.0 GHz, 2M Cache, 15W TDP)
7th Gen Intel® Core™ (formerly Kaby Lake U-Series)	Core™ i7-7600U (2/4 Cores, 2.8 GB/3.9 GHz, 4M Cache, 15W TDP) Core™ i5-7300U (2/4 Cores, 2.6 GHz/3.5 GHz, 3M Cache, 15W TDP) Core™ i5-7200U (2/4 Cores, 2.4 GHz/3.1 GHz, 3M Cache, 15W TDP) Core™ i3-7100U (2/4 Cores, 2.4 GHz, 3M Cache, 15W TDP) Celeron® 3965U (2/2 Cores, 2.2 GHz, 2M Cache, 15W TDP)
Memory	1x SO-DIMM DDR4 2133 (32GB Max.)
Graphics	Intel® HD Graphics 510 (3955U) Intel® HD Graphics 520 (Skylake) Intel® HD Graphics 610 (3965U) Intel® HD Graphics 620 (Kaby Lake)
BIOS	AMI 128Mbit SPI BIOS
AI Controller (AIC)	AI for system monitoring and predictive analysis
Watchdog Timer	Runtime: 10 – 65535 seconds Powerup: 120 – 65535 seconds
TPM (optional)	SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)
Power	
DC Input	9~36VDC
Surge Protection	80V/1ms
Power in Protection	Reverse-Voltage, Over-Voltage, Under-Voltage, Over-Current
Remote/Ignition	1x ATX power on/off switch, 5-pin terminal block including 3-pin remote control and 2-pin ignition signals (pitch 3.81 mm)
Power Mode	AT/ATX (BIOS setting)
Mechanical	
Dimensions (WxDxH)	72(W) x 150(D) x 192(H) mm (2.83" x 5.91" x 7.56")
Weight (net/gross)	2kg
Mounting	DIN rail mount, wall mount
Construction	Aluminum and metal chassis with fanless design
Battery	Easily replaceable RTC battery holder
Dynamic Display Module (DDM)	0.96 inch LCM work with AIC to display system status
External IO	
Display Ports / Resolution	2x DP 4096x2304@60Hz 1x VGA/1920x1200@60Hz
Triple Display Ports	2x DP + 1x VGA
Ethernet	Wake-on-LAN and PXE / i219 supports iAMT 11.0 2x RJ45 GbE (1x Intel® i219 + 1x Intel® i210) - (AIMD-2Ri/2R/6RP4i/6RP4) 4x RJ45 GbE (1x Intel® i219 + 3x Intel® i210) - (AIMD-4Ri/4R)
PoE (optional)	PoE+ 802.3at support up to 30W 4x RJ45 GbE/PoE (1x Intel® i219 + 3x Intel® i210) - (AIMD-4Ri/4R)
USB 3.0/2.0	4x USB 3.0 ports via native XHCI controller (0.9A each port)
COM	1x RS-232/422/485 (auto flow control), 1x RS-232 - (AIMD-2Ri/2R) 2x RS-232/422/485 (auto flow control) - (AIMD-4Ri/4R/4RP4i/4RP4)

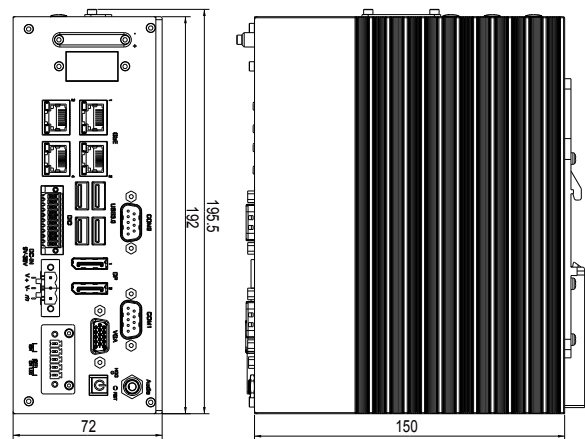
Digital I/O	16-bit programmable DIO (AIMD) 8-bit isolated DI & 8-bit isolated DO, sink/source mode, 5~48V, 100mA (AIMD-i)
Audio	ALC892 HD audio codec, Mic in, Line out
SIM	2x SIM push-push slots
Storage	
Internal Drive Bay	1x Internal SATA port for 2.5" HDD/SSD, support up to 5TB (15mm height) HDD 1x swappable SATA Tray for 2.5" HDD/SSD, support up to 10mm heightHDD/SSD optional by ODM
mSATA	1x mSATA (muxed with Mini-PCIe)
M.2	1x M.2 M Key 2242
Expansion Slot	
Mini-PCIe	1x full length Mini-PCIe (PCIe/mSATA + USB + USIM) 1x full length Mini-PCIe (PCIe + USB + USIM)
Other	
USB 2.0 Dongle	Internal 1x USB 2.0 for dongle security key
Antenna	4x antenna openings
LED	Power status, HDD status, IO status
Environment	
Operating Temperature	Standard: -20°C to 50°C (-4°F~122°F), supports 15W TDP CPU Extended temperature: -25°C to 70°C (-13°F~158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	95% @ 40°C (104°F), non-condensing
Vibration During Operation	5Grms with SSD (IEC60068-2-64: random 5~500Hz)
Shock During Operation	50Grms with SSD (IEC60068-2-27: Half Sine, 11ms duration)
Certification	
EMC	CE/FCC Class A
Safety Certifications	CB
OS Support	
Windows	Windows 7 32-bit/64-bit (Skylake only) Windows 8.1 32-bit/64-bit (Skylake only) Windows Embedded Standard 7(Skylake only) Windows Embedded 8 Standard (Skylake only) Windows 10 64-bit Windows 10 IoT
Linux	Linux

I/O Interfaces



Dimensions

Units: mm



I/O Comparison Chart

Model Name	DP	VGA	GbE (RJ45)	GbE / PoE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	2.5" Disk Bay
AIMD-2Ri			2	0	8-bit isolated DI & 8-bit isolated DO		1	1	1 (Internal or External)
AIMD-2R			2	0	16-bit DIO		1	1	
AIMD-4Ri	2	1	4	0	8-bit isolated DI & 8-bit isolated DO	4	0	2	
AIMD-4R			4	0	16-bit DIO		0	2	
AIMD-4RP4i			0	4	8-bit isolated DI & 8-bit isolated DO		0	2	
AIMD-4RP4			0	4	16-bit DIO		0	2	

Ordering Information

Barebone System - 8-bit isolated DI & 8-bit isolated DO

Model Name	Article Number (A/N)
AIMD6-6600-2Ri	05002
AIMD6-6300-2Ri	05004
AIMD-2Ri	
AIMD6-6100-2Ri	05006
AIMD6-3955-2Ri	05008
AIMD7-7200-2Ri	05256
AIMD6-6600-4Ri	05010
AIMD6-6300-4Ri	05012
AIMD-4Ri	
AIMD6-6100-4Ri	05014
AIMD6-3955-4Ri	05016
AIMD7-7200-4Ri	05266
AIMD6-6600-4RP4i	05034
AIMD6-6300-4RP4i	05036
AIMD-4RP4i	
AIMD6-6100-4RP4i	05038
AIMD6-3955-4RP4i	05040
AIMD7-7200-4RP4i	05296

Barebone System - 16-bit programmable DIO

Model Name	Article Number (A/N)
AIMD6-6600-2R	05001
AIMD6-6300-2R	05003
AIMD-2R	
AIMD6-6100-2R	05005
AIMD6-3955-2R	05007
AIMD7-7200-2R	05255
AIMD6-6600-4R	05009
AIMD6-6300-4R	05011
AIMD-4R	
AIMD6-6100-4R	05013
AIMD6-3955-4R	05015
AIMD7-7200-4R	05265
AIMD6-6600-4RP4	05033
AIMD6-6300-4RP4	05035
AIMD-4RP4	
AIMD6-6100-4RP4	05037
AIMD6-3955-4RP4	05039
AIMD7-7200-4RP4	05295

Optional Accessories

Isolated Module

iDIO-8I8O 8-bit isolated DI & 8-bit isolated DO module

AC-DC Power Adapter

AC-DC power adapter with pitch 5.0mm 3-pin terminal block plug

ADT-24V60-T3A	24V/60W
ADT-24V90-T3A	24V/90W
ADT-24V120-T3A	24V/120W
ADT-24V160-T3A	24V/160W
ADT-24V220-T3A	24V/220W
ADT-24V280-T3A	24V/280W

AC Power Cord

H05VV-F 3G 0.75mm², 1.8m, 250V, 10A

PCBL-B12	YP12-YC12:category B type plug, TW/JIP/US/CA/TH/PH/Central America
PCBL-D03	YP03-YC12:category D type plug, CN
PCBL-D35	YP35-YC12:category D type plug, AU/NZ
PCBL-G22	YP22-YC12:category G type plug, DE
PCBL-I61	YP61-YC12:category I type plug, UK/HK/MO/SG/MY

SO-DIMM Memory

DDR4-2133/2400 2GB/4GB/8GB/16GB/32GB

SSD	mSATA SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB
	2.5 inch SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB
	2.5 inch HDD: 500GB/1TB/1.5TB/2TB

Wireless Module

Mini-PCIe wireless module for 3G/4G LTE/Wi-Fi/BT/NB-IoT/GPS/BDS

Cable & Connector

CBL-S01	SATA (Data + Power) cable x1
TBP5-S03	3-Pin, pitch5.0mm Female Terminal Block Plug for DC input x1
TBP3-S05	5-Pin, pitch3.81mm Female Terminal Block Plug for remote connector x1
TBP3-D20	2x10-Pin, pitch2.54mm Female Terminal Block Plug for DIO connector x1

Mounting Kit

UTA-159 Phoenix Contact DIN Rail Clip with M3x6 screws x6

Packing List

Item No.

1	Eagle Eyes Embedded Box PC AIMD x1
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