

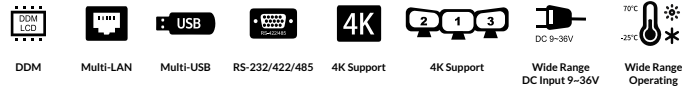
Eagle Eyes-AIMD

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
- Wi-Fi and wireless communication: 4G, WLAN, GPS, GSM/GPRS, and Bluetooth
- Special Power Design:
 - Wide voltage 9~36V DC input
 - RVP/OVP/UVP/OCV 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 sockets
 - 2x Mini PCIe interfaces

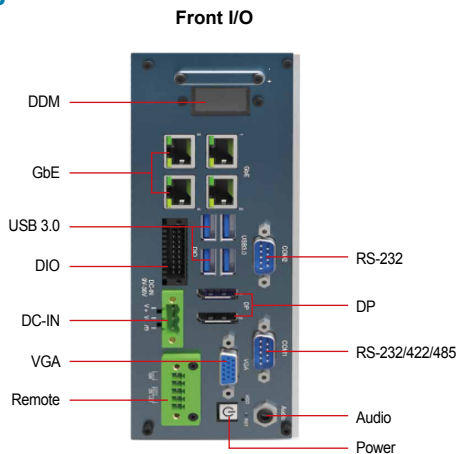


Specifications

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)	Infineon OPTIGA™ 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)

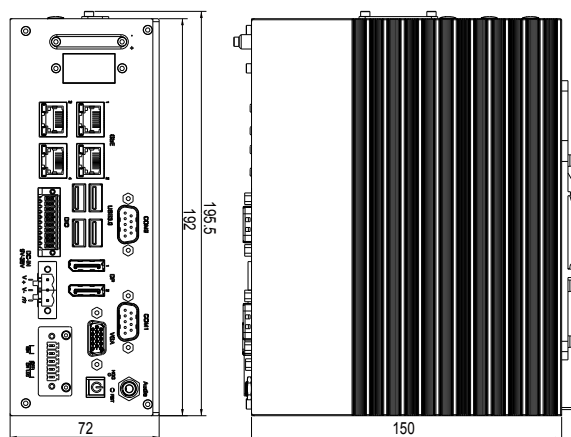
Digital I/O	16-bit programmable DIO (AIMD) 8-bit isolated DI & 8-bit isolated DO, sink/source mode, 5~48V, 100mA (AIMD-i)
Audio	ALC892 HD audio codec, Mic in, Line out
SIM and USIM Socket	2x SIM Push-Push sockets- SIM supports 2G, USIM supports 3 & 4G
Wi-Fi/Celluar	Supports Wi-Fi/LTE modules via 2x Mini PCIe interfaces
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-PCLe)
M.2	1x M.2 M Key 2242
Expansion Slot	
Mini-PCLe	1x full length Mini PCIe (PCLe/mSATA + USB + USIM) 1x full length Mini PCIe (PCLe + 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)
AIMD-2Ri	AIMD6-6600-2Ri Core™ i7-6600U CPU, 2x GbE (RJ45)	05002
	AIMD6-6300-2Ri Core™ i5-6300U CPU, 2x GbE (RJ45)	05004
	AIMD6-6100-2Ri Core™ i3-6100U CPU, 2x GbE (RJ45)	05006
	AIMD6-3955-2Ri Celeron® 3955U CPU, 2x GbE (RJ45)	05008
AIMD-4Ri	AIMD7-7200-2Ri Core™ i5-7200U CPU, 2x GbE (RJ45)	05256
	AIMD6-6600-4Ri Core™ i7-6600U CPU, 4x GbE (RJ45)	05010
	AIMD6-6300-4Ri Core™ i5-6300U CPU, 4x GbE (RJ45)	05012
	AIMD6-6100-4Ri Core™ i3-6100U CPU, 4x GbE (RJ45)	05014
AIMD-4RP4i	AIMD6-3955-4Ri Celeron® 3955U CPU, 4x GbE (RJ45)	05016
	AIMD7-7200-4Ri Core™ i5-7200U CPU, 4x GbE (RJ45)	05266
	AIMD6-6600-4RP4i Core™ i7-6600U CPU, 4x GbE/PoE (RJ45)	05034
	AIMD6-6300-4RP4i Core™ i5-6300U CPU, 4x GbE/PoE (RJ45)	05036
AIMD-4RP4	AIMD6-6100-4RP4i Core™ i3-6100U CPU, 4x GbE/PoE (RJ45)	05038
	AIMD6-3955-4RP4i Celeron® 3955U CPU, 4x GbE/PoE (RJ45)	05040
	AIMD7-7200-4RP4i Core™ i5-7200U CPU, 4x GbE/PoE (RJ45)	05296

Barebone System - 16-bit programmable DIO

	Model Name	Article Number (A/N)
AIMD-2R	AIMD6-6600-2R Core™ i7-6600U CPU, 2x GbE (RJ45)	05001
	AIMD6-6300-2R Core™ i5-6300U CPU, 2x GbE (RJ45)	05003
	AIMD6-6100-2R Core™ i3-6100U CPU, 2x GbE (RJ45)	05005
	AIMD6-3955-2R Celeron® 3955U CPU, 2x GbE (RJ45)	05007
AIMD-4R	AIMD7-7200-2R Core™ i5-7200U CPU, 2x GbE (RJ45)	05255
	AIMD6-6600-4R Core™ i7-6600U CPU, 4x GbE (RJ45)	05009
	AIMD6-6300-4R Core™ i5-6300U CPU, 4x GbE (RJ45)	05011
	AIMD6-6100-4R Core™ i3-6100U CPU, 4x GbE (RJ45)	05013
AIMD-4RP4	AIMD6-3955-4R Celeron® 3955U CPU, 4x GbE (RJ45)	05015
	AIMD7-7200-4R Core™ i5-7200U CPU, 4x GbE (RJ45)	05265
	AIMD6-6600-4RP4 Core™ i7-6600U CPU, 4x GbE/PoE (RJ45)	05033
	AIMD6-6300-4RP4 Core™ i5-6300U CPU, 4x GbE/PoE (RJ45)	05035
AIMD-4RP4	AIMD6-6100-4RP4 Core™ i3-6100U CPU, 4x GbE/PoE (RJ45)	05037
	AIMD6-3955-4RP4 Celeron® 3955U CPU, 4x GbE/PoE (RJ45)	05039
	AIMD7-7200-4RP4 Core™ i5-7200U CPU, 4x GbE/PoE (RJ45)	05295

Optional Accessories

Isolated Module

iDIO-8I8O	8-bit isolated DI & 8-bit isolated DO module
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AC-DC Power Adapter

Model Name	Power
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

Model Name	Description
PCBL-B12	YP12-YC12: category B type plug, TW/JP/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

Model Name	Capacity
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

Model Name	Description
CBL-S01	1x SATA (Data + Power) cable
TBP5-S03	1x 3-Pin, pitch5.0mm Female Terminal Block Plug for DC input
TBP3-S05	1x 5-Pin, pitch3.81mm Female Terminal Block Plug for remote connector
TBP3-D20	1x 2x10-Pin, pitch2.54mm Female Terminal Block Plug for DIO connector

Mounting Kit

UTA-159	Phoenix Contact DIN Rail Clip with 6x M3x6 screws
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Packing List

Item No.

1	1x Eagle Eyes Embedded Box PC AIMD
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