Eagle Eyes-AIMG

6th/7th Gen Intel® Core™ U Series Processor Fanless Box Computer

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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/UVP/OCP 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

DDM | Multi-LAN | Multi-USB | RS-422/485 | 4K Support | Triple Display | Wide Range DC Input 9~36V | Wide Range Operating

I/O Interfaces

Front I/O: GbE, USB 3.0, DP, VGA, Power, DIO, Audio, DDM

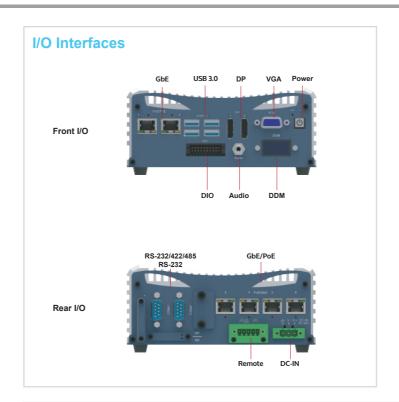Rear I/O: RS-232/422/485, RS-232, GbE/PoE, Remote, DC-IN

Dimensions

Units: mm
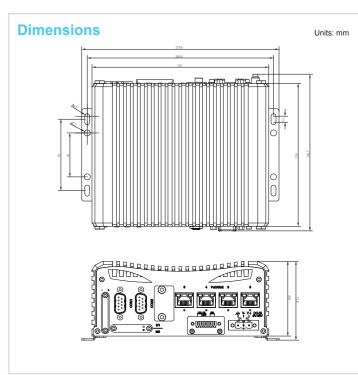

I/O Comparison Chart

Model Name	DP	VGA	GbE (RJ45)	GbE / PoE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay
AIMG6-6RP4i	2	1	2	4	8-bit isolated DI & 8-bit isolated DO	4	2	2	1
AIMG6-6RP4	2	1	2	4	16-bit DIO	4	2	2	1
AIMG6-6Ri	2	1	6	0	8-bit isolated DI & 8-bit isolated DO	4	2	2	1
AIMG6-6R	2	1	6	0	16-bit DIO	4	2	2	1

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™ 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.)
Graphic	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 (W x D x H)	161(W) x 130(D) x 68.1(H) mm (6.34" x 5.12" x 2.68")
Weight (net/gross)	1.7kg
Mounting	Wall mount bracket, foot stand
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 Combinations	2x DP + 1x VGA
Ethernet	2x RJ45 GbE (1x Intel®i219+1x Intel®i210) / Wake-on-LAN and PXE / i219 supports iAMT 11.0 (AIMG-6RP4i, AIMG-6RP4)
	6x RJ45 GbE (1x Intel®i219+5x Intel®i210) / Wake-on-LAN and PXE / i219 supports iAMT 11.0 (AIMG-6Ri, AIMG-6R)
PoE (optional)	4x RJ45 GbE (Intel®i210) PoE+ 802.3at support up to 30W (AIMG-6RP4i, AIMG-6RP4)
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 port
Digital I/O	16-bit programmable DIO (AIMG-6RP4, AIMG-6R)
	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIMG-6RP4i, AIMG-6Ri)
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
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 CPU TDP up to 35W
	Extended temperature: -25°C to 70°C (-13°F~158°F) (For more information, please contact your representative)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	95% @ 40°C (104°F), non-condensing
Vibration During Operation (IEC60068-2-64: Random 5~500Hz)	5Grms with SSD; 1 Grms with HDD
Shock During Operation (IEC60068-2-27: Half Sine, 11ms Duration)	50Grms with SSD; 20Grms with HDD

Certification

EMC	CE/FCC Class A
Safety Certifications	CB

OS Support

Optional OS Installation	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

Ordering Information

Remark: Following models include Intel® 6th Gen Skylake U (SKL-U) platform, 2x DP, 1x VGA, 4x USB 3.0, 2x RS-232/422/485, 2x RS-232, 1x Internal SATA port for 2.5" HDD/SSD

	Model Name	
AIMG6-6RP4i Barebone System	AIMG6-6600-6RP4i	Core™ i7-6600U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO
	AIMG6-6300-6RP4i	Core™ i5-6300U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO
	AIMG6-6100-6RP4i	Core™ i3-6100U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO
	AIMG6-3955-6RP4i	Celeron® 3955U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO
AIMG6-6RP4 Barebone System	AIMG6-6600-6RP4	Core™ i7-6600U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit DIO
	AIMG6-6300-6RP4	Core™ i5-6300U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit DIO
	AIMG6-6100-6RP4	Core™ i3-6100U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit DIO
	AIMG6-3955-6RP4	Celeron® 3955U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit DIO
AIMG6-6Ri Barebone System	AIMG6-6600-6Ri	Core™ i7-6600U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO
	AIMG6-6300-6Ri	Core™ i5-6300U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO
	AIMG6-6100-6Ri	Core™ i3-6100U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO
	AIMG6-3955-6Ri	Celeron® 3955U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO
AIMG6-6R Barebone System	AIMG6-6600-6R	Core™ i7-6600U CPU, 6x GbE(RJ45), 16-bit DIO
	AIMG6-6300-6R	Core™ i5-6300U CPU, 6x GbE(RJ45), 16-bit DIO
	AIMG6-6100-6R	Core™ i3-6100U CPU, 6x GbE(RJ45), 16-bit DIO
	AIMG6-3955-6R	Celeron® 3955U CPU, 6x GbE(RJ45), 16-bit DIO

Optional Accessories

Isolated Module

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

AC-DC Power Adapter

ADT-24V60-T3A	24V/60W AC-DC power adapter with pitch 5.08mm 3-pin terminal block plug
ADT-24V90-T3A	24V/90W AC-DC power adapter with pitch 5.08mm 3-pin terminal block plug
ADT-24V120-T3A	24V/120W AC-DC power adapter with pitch 5.08mm 3-pin terminal block plug
ADT-24V160-T3A	24V/160W AC-DC power adapter with pitch 5.08mm 3-pin terminal block plug
ADT-24V220-T3A	24V/220W AC-DC power adapter with pitch 5.08mm 3-pin terminal block plug
ADT-24V280-T3A	24V/280W AC-DC power adapter with pitch 5.08mm 3-pin terminal block plug

AC Power Cord

PCBL-B12	YP12-YC12:category B type plug, H05VV-F 3G 0.75mm2, 1.8m, 250V, 10A, TW/JP/US/CA/TH/PH/Central America
PCBL-D03	YP03-YC12:category D type plug, H05VV-F 3G 0.75mm2, 1.8m, 250V, 10A, CN
PCBL-D35	YP35-YC12:category D type plug, H05VV-F 3G 0.75mm2, 1.8m, 250V, 10A, AU/NZ
PCBL-G22	YP22-YC12:category G type plug, H05VV-F 3G 0.75mm2, 1.8m, 250V, 10A, DE
PCBL-I61	YP61-YC12:category I type plug, H05VV-F 3G 0.75mm2, 1.8m, 250V, 10A, 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
	M.2 SATA 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	
CBL-S01	SATA (Data + Power) cable x1
TBP5-S03	3-Pin, pitch5.08mm 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, pitch3.5mm Female Terminal Block Plug for DIO Connector x1
Mounting Kit	
WBK-AIM	Wall Mount Bracket x2 with M2.5x5 screws x4

Packing List

Item No.	
1	Eagle Eyes Embedded Box PC AIMG x1
2	Rubber Foot x4 with M2.5x5 screws x4

* Please contact sales representative