

Eagle Eyes-AIM PRODUCT BROCHURE



CoreTM i7-6600U (2/4 Cores, 2.6 GB/3.4 GHz, 4M Cache, 15W TDP)

Part number: AIMG6-Pi

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/UVI/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

System

6th Gen Intel® CoreTM (formerly Skylake U-Series)	CoreTM i7-6600U (2/4 Cores, 2.6 GB/3.4 GHz, 4M Cache, 15W TDP) CoreTM i5-6300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M Cache, 15W TDP) CoreTM 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® CoreTM (formerly Skylake U-Series)	CoreTM i7-7600U (2/4 Cores, 2.8 GB/3.9 GHz, 4M Cache, 15W TDP) CoreTM i5-7300U (2/4 Cores, 2.6 GHz/3.5 GHz, 3M Cache, 15W TDP) CoreTM 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)

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BIOS	AMI 128Mbit SPI BIOS
AI Controller (AIC)	AI system for 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 included
Power Mode	AT/ATX (BIOS setting)
Mechanical	
Dimensions (WxDxH)	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	2x DP + 1x VGA
Ethernet	4x RJ45 GbE (1x Intel® i219 + 3x Intel® i210) / Wake on LAN i219 supports iAMT 11.0 (AIM6-i, AIM6)
PoE (optional)	2x RJ45 GbE (1x Intel® i219 + 3x Intel® i210) PoE+ 30W (AIM6-P2i, AIM6-P2)
	4x RJ45 GbE (1x Intel® i219 + 3x Intel® i210) PoE+ 30W (AIM6-Pi, AIM6-P)
USB 3.0/2.0	4x USB 3.0 ports via native XHCI controller (0.9A ea)
COM	2x RS-232/422/485 (auto flow control), 2x RS-232 port
Digital I/O	16-bit programmable DIO (AIM6, AIM6-P, AIM6-P2)
	8-bit isolated DI & 8-bit isolated DO, sink/source mode (AIM6-i, AIM6-Pi, AIM6-P2i)
Audio	ALC892 HD audio codec, Mic in, Line out
SIM	2x SIM push-push slots
Storage	
Internal Drive Bay	1 x Internal SATA port 2.5" HDD/SSD

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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 1 x USB 2.0 for dongle security
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 15V
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)

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
Linux	Windows 10 IoT
	Linux

I/O Comparison Chart

Model Name	DP	VGA	GbE (RJ45)	GbE/PoE (RJ45)	DIO
AIM6-Pi	2	1	0	4	8-bit isolated DI & 8-bit DIO
AIM6-P			0	4	16-bit DIO
AIM6-i			4	0	8-bit isolated DI & 8-bit DIO
AIM6			4	0	16-bit DIO
AIM6-P2i			0	2	8-bit isolated DI & 8-bit DIO
AIM6-P2			0	2	16-bit DIO

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Ordering Information:

	Model Name	* 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	Article Number (A/N)
	AIM6-6600Pi	Core™ i7-6600U CPU, 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02001
AIM6-Pi	AIM6-6300Pi	Core™ i5-6300U CPU, 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02002
Barebone System	AIM6-6100Pi	Core™ i3-6100U CPU, 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02003
	AIM6-3955Pi	Celeron® 3955U CPU, 4x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02004
	AIM6-6600P	Core™ i7-6600U CPU, 4x GbE/PoE(RJ45), 16-bit DIO	02005
AIM6-P	AIM6-6300P	Core™ i5-6300U CPU, 4x GbE/PoE(RJ45), 16-bit DIO	02006
Barebone System	AIM6-6100P	Core™ i3-6100U CPU, 4x GbE/PoE(RJ45), 16-bit DIO	02007
	AIM6-3955P	Celeron® 3955U CPU, 4x GbE/PoE(RJ45), 16-bit DIO	02008
	AIM6-6600i	Core™ i7-6600U CPU, 4x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02009
AIM6-i	AIM6-6300i	Core™ i5-6300U CPU, 4x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02010
Barebone System	AIM6-6100i	Core™ i3-6100U CPU, 4x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02011
	AIM6-3955i	Celeron® 3955U CPU, 4x GbE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02012
	AIM6-6600	Core™ i7-6600U CPU, 4x GbE(RJ45), 16-bit DIO	02013
AIM6	AIM6-6300	Core™ i5-6300U CPU, 4x GbE(RJ45), 16-bit DIO	02014
Barebone System	AIM6-6100	Core™ i3-6100U CPU, 4x GbE(RJ45), 16-bit DIO	02015
	AIM6-3955	Celeron® 3955U CPU, 4x GbE(RJ45), 16-bit DIO	02016
	AIM6-6600P2i	Core™ i7-6600U CPU, 2x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02017
AIM6-P2i	AIM6-6300P2i	Core™ i5-6300U CPU, 2x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02018
Barebone System	AIM6-6100P2i	Core™ i3-6100U CPU, 2x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02019

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	AIM6-3955P2i	Celeron® 3955U CPU, 2x GbE/PoE(RJ45), 8-bit isolated DI & 8-bit isolated DO	02020
	AIM6-6600P2	Core™ i7-6600U CPU, 2x GbE/PoE(RJ45), 16-bit DIO	02021
AIM6-P2	AIM6-6300P2	Core™ i5-6300U CPU, 2x GbE/PoE(RJ45), 16-bit DIO	02022
Barebone System	AIM6-6100P2	Core™ i3-6100U CPU, 2x GbE/PoE(RJ45), 16-bit DIO	02023
	AIM6-3955P2	Celeron® 3955U CPU, 2x GbE/PoE(RJ45), 16-bit DIO	02024

Optional Accessories

Isolated Module	
iDIO-818O	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 0.75mm ² , 1.8m, 250V, 10A
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	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, pitch 3.81mm Female Terminal Block Plug for remote connector x 1
TBP3-D20	2x10-Pin, pitch2.54mm Female Terminal Block Plug for DIO connector x1
Mounting Kit	
WBK-AIH	Wall mount bracket x2 with M2.5x5 screws x4

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Packing List

Item No.	
1	Eagle Eyes Embedded Box PC AIM x1
2	Rubber foot x 4 with M2.5x5 screws x 4

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