

6th Gen Intel® Core™ (formerly Skylake U-Series)

Eagle Eyes-AIMG

PRODUCT BROCHURE

7th Gen Intel® Core™ (formerly Skylake U-Series)



Memory

Graphics

6th/7th gen Intel® Core™ (formerly Skylake U-Series) processor
 Core™ U series processor

Part number: AIMG6

Features

Core™ i7-6600U (2/4 Cores, 2.6 GHz/3.4 GHz, 4M Cache)
 Core™ i5-6300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M Cache)
 Core™ i3-6100U (2/4 Cores, 2.3 GHz, 3M Cache, 15W)
 Celeron® 3955U (2/2 Cores, 2.0 GHz, 2M Cache, 15W)
 Core™ i7-7600U (2/4 Cores, 2.6 GHz/3.4 GHz, 4M Cache)
 Core™ i5-7300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M Cache)
 Core™ i3-7100U (2/4 Cores, 2.3 GHz, 3M Cache, 15W)
 Celeron® 3965U (2/2 Cores, 2.0 GHz, 2M Cache, 15W)

1x SO-DIMM DDR4 2133 (32GB Max.)
 Intel® HD Graphics 510 (3955U)
 Intel® HD Graphics 520 (Skylake)
 Intel® HD Graphics 610 (3965U)
 Intel® HD Graphics 620 (Kaby Lake)

BIOS

AI Controller (AIC)

Watchdog Timer

TPM (optional)

Power

DC Input

Surge Protection

Power in Protection

Remote/Ignition

Power Mode

Mechanical

Dimensions (WxDxH)

Weight (net/gross)

Mounting

Construction

Battery

Dynamic Display Module (DDM)

- 6th/7th gen Intel platform (Skylake/Kaby Lake), Xeon Phi, Core i7, i5, i3, Pentium and Celeron processor

- Supports LG A1151 socket desktop processor up to 35W

- 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: 200V/1ms
 - Power ignition control
- Easy Expansion & Installation:
 - One side bezel access and easy cable management
 - Easily replaceable RTC battery holder
 - 3x SIM push-in slots

AI platform (SMBIOS)
 BIOS
 Fan System Monitoring and predictive analysis
 Runtime: 10 – 65535 seconds

Powerup: 120 – 65535 seconds

SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)

9~36VDC
 80V/1ms
 Reverse-Voltage, Over-Voltage, Under-Voltage, Over-Current
 1x ATX power on/off switch, 5-pin terminal block incl. AT/ATX (BIOS setting)

161(W) x 130(D) x 68.1(H) mm (6.34" x 5.12" x 2.68")
 1.7kg
 Wall mount bracket, foot stand

Aluminum and metal chassis with fanless design

Easily replaceable RTC battery holder

0.96 inch LCM work with AIC to display system status

External IO

Display Ports / Resolution

Triple Display Ports Combinations

Ethernet

PoE (optional)

USB 3.0/2.0

COM

2x DP/4096x2304 @60Hz

1x VGA/1920x1200 @60Hz

2x DP + 1x VGA

2x RJ45 GbE (Intel® i219 + Intel® i210) / Wake-on-LAN

6x RJ45 GbE (1x Intel® i219 + 5x Intel® i210) / Wake-on-LAN

4x RJ45 GbE PoE+ (Intel® i210) 802.3at support up to 30W

4x USB 3.0 ports via native XHCI controller (0.9A ea)

2x RS-232/422/485 (auto flow control), 1x RS-232 port

* All product specifications are subject to change without notice

Digital I/O	16-bit programmable DIO (AIMG-6RP4, AIMG-6R) 8-bit isolated DI & 8-bit isolated DO, sink/source mod
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 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
	Windows 10 IoT
Linux	Linux

System

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Head Office: Unit 2, 62 Township Drive, West
Burleigh. Qld. 4219.



Ordering Information:

	Model Name	* Following models include Intel® 6th Gen Skylake U (SKL-U) platform SATA port for 2.5" HDD/SSD
	AIMG6-6600-6RP4i	CoreTM i7-6600U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit is
AIMG6-6RP4i	AIMG6-6300-6RP4i	CoreTM i5-6300U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit is
Barebone System	AIMG6-6100-6RP4i	CoreTM i3-6100U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit is
	AIMG6-3955-6RP4i	Celeron® 3955U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 8-bit is
	AIMG6-6600-6RP4	CoreTM i7-6600U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit
AIMG6-6RP4	AIMG6-6300-6RP4	CoreTM i5-6300U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit
Barebone System	AIMG6-6100-6RP4	CoreTM i3-6100U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit
	AIMG6-3955-6RP4	Celeron® 3955U CPU, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 16-bit D
	AIMG6-6600-6Ri	CoreTM i7-6600U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isol
AIMG6-6Ri	AIMG6-6300-6Ri	CoreTM i5-6300U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isol
Barebone System	AIMG6-6100-6Ri	CoreTM i3-6100U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isol
	AIMG6-3955-6Ri	Celeron® 3955U CPU, 6x GbE(RJ45), 8-bit isolated DI & 8-bit isola
	AIMG6-6600-6R	CoreTM i7-6600U CPU, 6x GbE(RJ45), 16-bit DIO
AIMG6-6R	AIMG6-6300-6R	CoreTM i5-6300U CPU, 6x GbE(RJ45), 16-bit DIO
Barebone System	AIMG6-6100-6R	CoreTM 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
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Other Accessories

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/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

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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
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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

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 AIMG x1
2	Rubber foot x4 with M2.5x5 screws x4

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