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

Eagle Eyes-AIMG

PRODUCT BROCHURE

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



6th/7th gen Intel® platform (formerly Skylake/Kaby Lake), Core™ U series processor

Part number: AIMG6

Features

- 6th/7th gen Intel platform (formerly Skylake/Kaby Lake), Xeon E3/Core S i7, i5, i3, Pentium and Celeron processor
- Supports LGA1151 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
  - Remote on/off power switch with LED
  - Easily replaceable RTC battery holder
  - 3x SIM push-push slots

CoreTM i7-6600U (2/4 Cores, 2.6 GB/3.4 GHz, 4M C	
CoreTM i5-6300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M	
CoreTM i3-6100U (2/4 Cores, 2.3 GHz, 3M Cache, 1	
Celeron® 3955U (2/2 Cores, 2.0 GHz, 2M Cache, 15	
CoreTM i7-7600U (2/4 Cores, 2.6 GB/3.4 GHz, 4M C	
CoreTM i5-7300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M	
CoreTM i3-7100U (2/4 Cores, 2.3 GHz, 3M Cache, 1	
Celeron® 3965U (2/2 Cores, 2.0 GHz, 2M Cache, 15	
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, Ove
Remote/Ignition	1x ATX power on/off switch, 5-pin terminal block incl
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 statu
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 (Intel® i219 + Intel® i210) / Wake-on-L
	6x RJ45 GbE (1x Intel® i219 + 5x Intel® i210) / Wak
PoE (optional)	4x RJ45 GbE PoE+ (Intel® i210) 802.3at support up
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), 1x RS-232 po

* All product specifications are subject to change without notice

Email: sales@vetron.com.au
ABN: 21 141 474 017
Business number +61 (07) 3186 8825

Head Office: Unit 3, 25 Randall Street, Slacks Creek. Qld. 4127.

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 15W
Storage Temperture	-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

* All product specifications are subject to change without notice

Email: sales@vetron.com.au
ABN: 21 141 474 017
Business number +61 (07) 3186 8825

Head Office: Unit 3, 25 Randall Street, Slacks Creek. Qld. 4127.

Ordering Information:

	Model Name	* Following models include Intel® 6th Gen Skylake U (SKL-U) platfo 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 iso
	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

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

* All product specifications are subject to change without notice

Email: sales@vetron.com.au
ABN: 21 141 474 017
Business number +61 (07) 3186 8825

Head Office: Unit 3, 25 Randall Street, Slacks Creek. Qld. 4127.

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

WBK-AIH	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

Email: sales@vetron.com.au
ABN: 21 141 474 017
Business number +61 (07) 3186 8825

Head Office: Unit 3, 25 Randall Street, Slacks Creek. Qld. 4127.