# **Eagle Eyes-AIMB**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
- 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













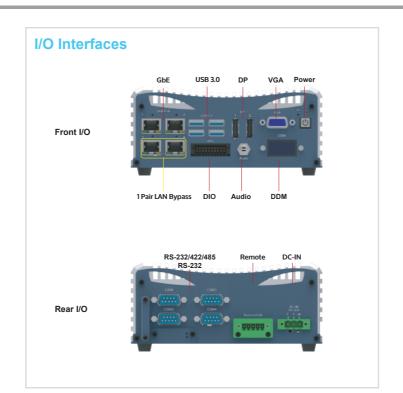
# **I/O Comparison Chart**

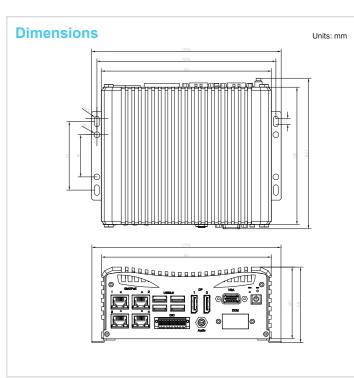
Model Name	DP	VGA	GbE (RJ45)	1 pair LAN Bypass	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay
AIMB6-i	2	1	4	1	8-bit isolated DI & 8-bit isolated DO	4	2	2	1
AIMB6	2	1	4	1	16-bit DIO	4	2	2	1

### **Specifications** System

System				
6th Gen Intel® Core™	Core™ i7-6600U (2/4 Cores, 2.6 GB/3.4 GHz, 4M Cache, 15W TDP)			
(formerly Skylake	Core™ i5-6300U (2/4 Cores, 2.4 GHz/3.0 GHz, 3M Cache, 15W TDP)			
U-Series)	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™	Core™ i7-7600U (2/4 Cores, 2.8 GB/3.9 GHz, 4M Cache, 15W TDP)			
(formerly Kaby Lake	Core™ i5-7300U (2/4 Cores, 2.6 GHz/3.5 GHz, 3M Cache, 15W TDP)			
U-Series)	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			
Al Controller (AIC)	Al for system monitoring and predictive analysis			
Watchdog Timer	Runtime: 10 – 65535 seconds			
waterideg rimer	Powerup: 120 – 65535 seconds			
TPM (optional)	SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)			
II w (optional)	OLD3003 (11 W 2.0)7 OLD3033 (11 W 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			
rtemoterigintion	and 2-pin ignition signals (pitch 3.81 mm)			
Power Mode	AT/ATX (BIOS setting)			
I OWEI MOUE	ATTATA (BIOG 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 Discourse Discourse	Easily replaceable RTC battery holder			
Dynamic Display Module (DDM)	0.96 inch LCM work with AIC to display system status			
External IO				
Display Ports /	2x DP 4096x2304@60Hz			
Resolution	1x VGA/1920x1200@60Hz			
Triple Display Ports	2x DP + 1x VGA			
Combinations Ethernet	4x RJ45 GbE (Intel®i210) / Wake-on-LAN and PXE			
LAN Bypass	1 pair LAN bypass			
USB 3.0/2.0	4x USB 3.0 ports via native XHCl controller (0.9A each port)			
COM				
	2x RS-232/422/485 (auto flow control), 2x RS-232 port			
Digital I/O	16-bit programmable DIO (AIMB6)			
	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA			
A !! -	(AIMB6-i)			
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-PCle	1x full length Mini-PCle (PCle/mSATA + USB + USIM)		
	1x full length Mini-PCle (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 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, 4x GbE(RJ45) with 1 pair LAN
	Model Name	Bypass, 1x Internal SATA port for 2.5" HDD/SSD
	AIMB6-6600i	Core™ i7-6600U CPU, 8-bit isolated DI & 8-bit isolated DO
AIMB6-i	AIMB6-6300i	Core™ i5-6300U CPU, 8-bit isolated DI & 8-bit isolated DO
Barebone System	AIMB6-6100i	Core™ i3-6100U CPU, 8-bit isolated DI & 8-bit isolated DO
	AIMB6-3955i	Celeron® 3955U CPU, 8-bit isolated DI & 8-bit isolated DO
	AIMB6-6600	Core™ i7-6600U CPU, 16-bit DIO
AIMB6	AIMB6-6300	Core™ i5-6300U CPU, 16-bit DIO
Barebone System	AIMB6-6100	Core™ i3-6100U CPU, 16-bit DIO
	AIMB6-3955	Celeron® 3955U CPU, 16-bit DIO

# **Optional Accessories**

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iDIO-818O	8-bit isolated DI & 8-bit isolated DO module

AC-DC Power Adapt	
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-PCle 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 AIMB6 x1
2	Rubber Foot x4 with M2.5x5 screws x4

<sup>\*</sup> Please contact sales representative