

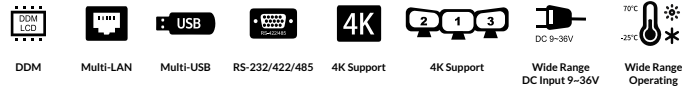
# Eagle Eyes-AIML

6th/7th Generation Intel® Core™ U Series Processor Fanless Box Computer, 2x RJ45 GbE



## 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
- Wi-Fi and wireless communication: 4G, WLAN, GPS, GSM/GPRS, and Bluetooth
- Special Power Design:
  - Wide voltage 9~36V DC input
  - RVP/OVP/UVP/OCV support
  - Surge protection: 80V/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
  - 2x SIM Push-Push sockets
  - 2x Mini PCIe interfaces

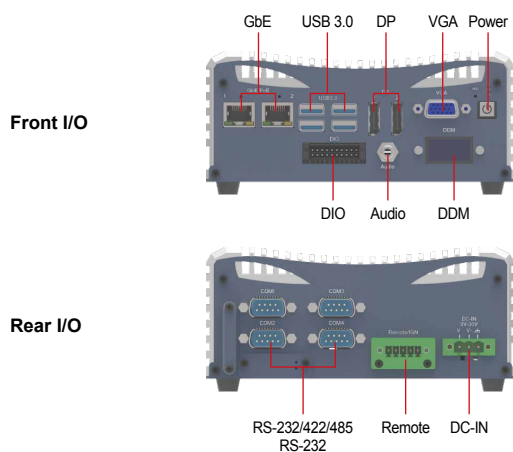


## Specifications

System	
<b>6th Gen Intel® Core™ (formerly Skylake U-Series)</b>	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)
<b>7th Gen Intel® Core™ (formerly Kaby Lake U-Series)</b>	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)
<b>Memory</b>	1x SO-DIMM DDR4 2133 (32GB Max.)
<b>Graphics</b>	Intel® HD Graphics 510 (3955U) Intel® HD Graphics 520 (Skylake) Intel® HD Graphics 610 (3965U) Intel® HD Graphics 620 (Kaby Lake)
<b>BIOS</b>	AMI 128Mbit SPI BIOS
<b>AI Controller (AIC)</b>	AI for system monitoring and predictive analysis
<b>Watchdog Timer</b>	Runtime: 10 – 65535 seconds Powerup: 120 – 65535 seconds
<b>TPM (optional)</b>	Infineon OPTIGA™ SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)
Power	
<b>DC Input</b>	9~36VDC
<b>Surge Protection</b>	80V/1ms
<b>Power in Protection</b>	Reverse-Voltage, Over-Voltage, Under-Voltage, Over-Current
<b>Remote/Ignition</b>	1x ATX power on/off switch, 5-pin terminal block including 3-pin remote control and 2-pin ignition signals (pitch 3.81 mm)
<b>Power Mode</b>	AT/ATX (BIOS setting)
Mechanical	
<b>Dimensions (WxDxH)</b>	161(W) x 130(D) x 68.1(H) mm (6.34" x 5.12" x 2.68")
<b>Weight (net/gross)</b>	1.7kg
<b>Mounting</b>	Wall mount bracket, foot stand
<b>Construction</b>	Aluminum and metal chassis with fanless design
<b>Battery</b>	Easily replaceable RTC battery holder
<b>Dynamic Display Module (DDM)</b>	0.96 inch LCM work with AIC to display system status
External IO	
<b>Display Ports / Resolution</b>	2x DP/4096x2304@60Hz 1x VGA/1920x1200@60Hz
<b>Triple Display Ports</b>	2x DP + 1x VGA
<b>Ethernet</b>	2x RJ45 GbE (1x Intel® i219 + 1x Intel® i210) / Wake-on-LAN and PXE / i219 supports iAMT 11.0
<b>PoE</b>	NA
<b>USB 3.0/2.0</b>	4x USB 3.0 ports via native XHCI controller (0.9A each port)
<b>COM</b>	1x RS-232/422/485 (auto flow control), 3x RS-232 port
<b>Digital I/O</b>	16-bit programmable DIO (AIML6) 8-bit isolated DI & 8-bit isolated DO, sink/source mode, 5~48V, 100mA (AIML6-i)
<b>Audio</b>	ALC892 HD audio codec, Mic in, Line out

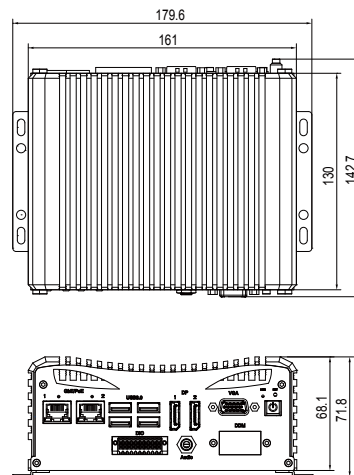
<b>SIM and USIM Socket</b>	2x SIM Push-Push sockets- SIM supports 2G, USIM supports 3 & 4G
<b>Wi-Fi/Celluar</b>	Supports Wi-Fi/LTE modules via 2x Mini PCIe interfaces
<b>Storage</b>	
<b>Internal Drive Bay</b>	1x Internal SATA port for 2.5" HDD/SSD
<b>mSATA</b>	1x mSATA (muxed with Mini PCIe)
<b>M.2</b>	1x M.2 M Key 2242
Expansion Slot	
<b>Mini PCIe</b>	1x full length Mini PCIe (PCIe/mSATA + USB + USIM) 1x full length Mini PCIe (PCIe + USB + USIM)
Other	
<b>USB 2.0 Dongle</b>	Internal 1x USB 2.0 for dongle security key
<b>Antenna</b>	4x antenna openings
<b>LED</b>	Power status, HDD status, IO status
Environment	
<b>Operating Temperature</b>	Standard: -20°C to 50°C (-4°F~122°F), supports 35W TDP CPU Extended temperature: -25°C to 70°C (-13°F~158°F)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Relative Humidity</b>	95% @ 40°C (104°F), non-condensing
<b>Vibration During Operation</b>	5Grms with SSD (IEC60068-2-64: random 5~500Hz)
<b>Shock During Operation</b>	50Grms with SSD (IEC60068-2-27: Half Sine, 11ms duration)
Certification	
<b>EMC</b>	CE/FCC Class A
<b>Safety Certifications</b>	CB
OS Support	
<b>Windows</b>	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
<b>Linux</b>	Linux

## I/O Interfaces



## Dimensions

Units: mm



## I/O Comparison Chart

Model Name	DP	VGA	GbE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay
AIML6	2	1	2	16-bit DIO	4	3	1	1
AIML6-i				8-bit isolated DI & 8-bit isolated DO				

## Ordering Information

	Model Name	*Following models include Intel® 6th Gen Skylake U (SKL-U) platform, 2x DP, 1x VGA, 4x USB 3.0, 1x RS-232/422/485, 3x RS-232, 2x GbE (RJ45), 1x Internal SATA port for 2.5" HDD/SSD	Article Number (A/N)
AIML6 Barebone System	AIML6-6600	Core™ i7-6600U CPU, 16-bit DIO	02041
	AIML6-6300	Core™ i5-6300U CPU, 16-bit DIO	02042
	AIML6-6100	Core™ i3-6100U CPU, 16-bit DIO	02043
	AIML6-3955	Celeron® 3955U CPU, 16-bit DIO	02044
AIML6-i Barebone System	AIML6-6600i	Core™ i7-6600U CPU, 8-bit isolated DI & 8-bit isolated DO	02045
	AIML6-6300i	Core™ i5-6300U CPU, 8-bit isolated DI & 8-bit isolated DO	02046
	AIML6-6100i	Core™ i3-6100U CPU, 8-bit isolated DI & 8-bit isolated DO	02047
	AIML6-3955i	Celeron® 3955U CPU, 8-bit isolated DI & 8-bit isolated DO	02048

## Optional Accessories

### Isolated Module

iDIO-8I8O 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 0.75mm2, 1.8m, 250V, 10A

PCBL-B12	YP12-YC12: category B type plug, TW/JR/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	1x SATA (Data + Power) cable
TBP5-S03	1x 3-Pin, pitch5.0mm Female Terminal Block Plug for DC input
TBP3-S05	1x 5-Pin, pitch3.81mm Female Terminal Block Plug for remote connector
TBP3-D20	1x 2x10-Pin, pitch2.54mm Female Terminal Block Plug for DIO connector

### Mounting Kit

WBK-AIM	2x Wall mount bracket with 4x M2.5x5 screws
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## Packing List

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