Eagle Eyes-AIHL-EP

6th/7th Gen Intel® Xeon® E3/Core™ S Series (FCLGA1151 Socket) Box Computer



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:
- IOM1/IOM2: various I/O function modules available
- Remote on/off power switch with LED
- Easily replaceable RTC battery holder
- 3x SIM push-push slots

















I/O Comparison Chart

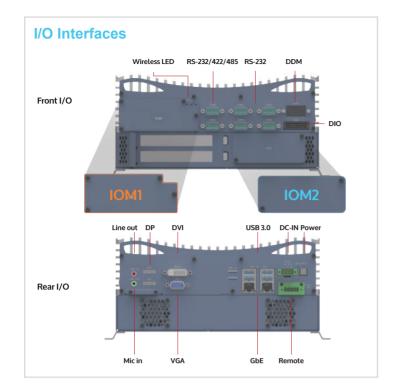
Model Name	DP	DVI	VGA	GbE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay	Expansion Slot
AIHL-EP1	2	1	1	2	16-bit DIO	6	4	2	3	1x PCle x16, 1x PCl
AIHL-EP2	2	1	1	2	16-bit DIO	6	4	2	3	1x PCle x16, 1x PCle x4
AIHL-EP3	2	1	1	2	16-bit DIO	6	4	2	3	2x PCI
AIHL-EP1-i	2	1	1	2	8-bit isolated DI & 8-bit isolated DO	6	4	2	3	1x PCle x16, 1x PCl
AIHL-EP2-i	2	1	1	2	8-bit isolated DI & 8-bit isolated DO	6	4	2	3	1x PCle x16, 1x PCle x4
AIHL-EP3-i	2	1	1	2	8-bit isolated DI & 8-bit isolated DO	6	4	2	3	2x PCI

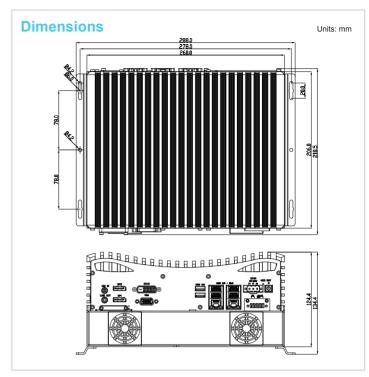
Specifications

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System	
CPU	6th/7th Gen Intel® Xeon® E3/Core™ S (formerly Skylake/Kaby Lake)
	LGA1151 socket type CPU (supports TDP up to 35W)
Chipset	Intel®C236 Chipset
Memory	2x DDR4 SO-DIMM Max. 64GB (Skylake: DDR4-2133; Kaby Lake: DDR4-2400)
Graphic	Xeon®: HD Graphics P530 (Skylake)/P630 (Kaby Lake)
	Core™ I Series: HD Graphics 530 (Skylake)/630 (Kaby Lake)
	Pentium®/Celeron®: HD Graphics 510 (Skylake)/610 (Kaby Lake)
BIOS	AMI 128Mbit SPI BIOS
Al Controller (AIC)	Al 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	200V/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
3	and 2-pin ignition signals (pitch 3.81 mm)
Power Mode	AT/ATX (BIOS setting)
Mechanical	
Dimensions (W x D x H)	260(W) x 206(D) x 124.4(H) mm (10.24" x 8.11" x 4.90")
Weight (net/gross)	5.3kg
Mounting	Foot stand; wall mount bracket (optional)
Construction	Aluminum and metal chassis with fanless design
Battery	Easily replaceable RTC battery holder
Dynamic Display	0.96 inch LCM work with AIC to display system status
Module (DDM)	
External IO	
Display Ports /	2x DP /4096x2304@60Hz
Resolution	1x DVI/1920x1200@60Hz
Resolution	1x VGA/1920x1200@60Hz
Triple Display Ports	2x DP + 1x DVI
Combinations	2x DP + 1x VGA
Combinations	1x DP + 1x VGA
Ethernet	2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports
Ethernet	, , , , , , , , , , , , , , , , , , , ,
	iAMT 11.0
PoE	NA
USB 3.0/2.0	6x USB 3.0 ports via native XHCI controller (0.9A each port)
COM	2x RS-232/422/485 (auto flow control), 4x RS-232 port
Digital I/O	16-bit programmable DIO (AIHL-EP)
	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIHL-EP-i)
Audio	ALC892 HD Audio Codec, Mic in, Line out
SIM	3x SIM push-push slots

Storage				
Internal Drive Bay	3x internal SATA port for 2.5" HDD/SSD			
mSATA	3x full length mSATA (muxed with Mini-PCle)			
Removable Drive Bay	NA			
RAID Mode	RAID 0/1/5			
Expansion slot				
Mini-PCle	3x full length Mini-PCIe (muxed with mSATA, auto detection)			
IOM1/IOM2 (optional)	Supports IOM1/IOM2 module			
PCI / PCIe	AIHL-EP1: 1x PCIe x16 + 1x PCI (PCI slot can't concurrent with IOM2)			
	AIHL-EP2: 1x PCIe x16 + 1x PCI x4 (PCIe x4 slot can't concurrent with IOM2)			
	AIHL-EP3: 2x PCI			
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	5Grms with SSD; 1Grms with HDD			
5~500Hz)				
Shock During Operation				
(IEC60068-2-27: Half Sine,	50Grms with SSD; 20Grms with HDD			
11ms duration)				
Certification				
EMC	CE/FCC Class A			
Safety Certifications	СВ			
00.0				
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			

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Ordering Information

Remark: Following models include 6th/7th Gen Intel® Skylake S/Kaby Lake S (SKL-S/KBL-S) platform, LGA 1151 socket desktop CPU, 2x DP, 1x DVI, 1x VGA, 2x GbE (RJ45), 6x USB 3.0, 2x RS-232/422/485, 4x RS-232, 3x internal SATA port for 2.5" HDD/SSD 16-bit DIO, 1x PCle x16, 1x PCl

Model Name

AIHL-EP1 Barebone System 16-bit DIO, 1x PCIe x16, 1x PCIe x4 16-bit DIO, 2x PCI AIHL-EP2 Barebone System AIHL-EP3 Barebone System AIHL-EP1-i Barebone System

8-bit isolated DI & 8-bit isolated DO, 1x PCle x16, 1x PCl 8-bit isolated DI & 8-bit isolated DO, 1x PCle x16, 1x PCle x4 AIHL-EP2-i Barebone System 8-bit isolated DI & 8-bit isolated DO, 2x PCI

AIHL-EP3-i Barebone System

CPU (Optional)

6th Gen Skylal	ke			
E3-1268Lv5	Xeon® E3-1268L v5 (4 cores/8 threads, 2.4 GHz/3.4 GHz, 8MB cache, 35W TDP)			
i7-6700TE	Core™ i7-6700TE (4 cores/8 threads, 2.4 GHz/3.4 GHz, 8MB cache, 35W TDP)			
i5-6500TE	Core™ i5-6500TE (4 cores/4 threads, 2.3 GHz/3.3 GHz, 6MB cache, 35 W TDP)			
i3-6100TE	Core™ i3-6100TE (2 cores/4 threads, 2.7 GHz, 4MB cache, 35 W TDP)			
G4400TE	Pentium® G4400TE (2 cores/2 threads, 2.4 GHz, 3MB cache, 35 W TDP)			
G3900TE	Celeron® G3900TE (2 cores/2 threads, 2.3 GHz, 2MB cache, 35 W TDP)			
7th Gen Kaby Lake				
i7-7700T	Core™ i7-7700T (4 cores/8 threads, 2.9 GHz/3.8 GHz, 8MB cache, 35W TDP)			

Core™ i5-7500T (4 cores/4 threads, 2.7 GHz/3.3 GHz, 6MB cache, 35W TDP)
Core™ i3-7101TE (2 cores/4 threads, 3.4 GHz, 3MB cache, 35W TDP) i5-7500T i3-7101TE

Optional Accessories

IOM1 Module

IOWIT WIOGUIE		
TO THE TOTAL OF TH	IOM1-4GR	4x RJ45 GbE
	IOM1-4GRP	4x RJ45 GbE with PoE (30.4W each port)
PART OF THE	IOM1-4GM	4x M12 GbE
10.0	IOM1-4GMP	4x M12 GbE with PoE (30.4W each port)
	IOM1-4U3	4x USB 3.0
	IOM1-2SFP+	2x 10GbE Fiber ethernet

IOM2 Module			
restale TI	IOM2-4GR	4x RJ45 GbE	
	IOM2-4GRP	4x RJ45 GbE with PoE (30.4W each port)	
AND THE PARTY OF T	IOM2-4GM	4x M12 GbE	
10.0	IOM2-4GMP	4x M12 GbE with PoE (30.4W each port)	
	IOM2-2SFP+	2x 10GbE Fiber ethernet	
Isolated Module			
iDIO-818O	8-bit isolated DI & 8-bit isolated DO module		

Other Accessories

AC-DC Power Adapter

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
	2.5 inch 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-AIH	Wall Mount Bracket x2 with M3x6 screws x6

Packing List

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Item No.	
1	Eagle Eyes Embedded Box PC AIHL-EP x1
2	Rubber Foot x4 with M3x6 screws x6

^{*} Please contact sales representative