Eagle Eyes-AIHV-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:
- 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

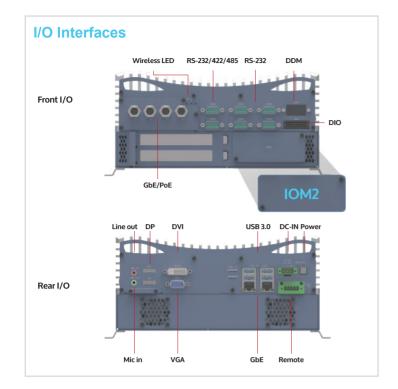
Model Name	DP	DVI	VGA	GbE (RJ45)	GbE / PoE (M12)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay	Expansion Slot
AIHV-EP1	2	1	1	2	4	16-bit DIO	6	4	2	3	1x PCIe x16, 1x PCI
AIHV-EP2	2	1	1	2	4	16-bit DIO	6	4	2	3	1x PCle x16, 1x PCle x4
AIHV-EP3	2	1	1	2	4	16-bit DIO	6	4	2	3	2x PCI
AIHV-EP1-i	2	1	1	2	4	8-bit isolated DI & 8-bit isolated DO	6	4	2	3	1x PCle x16, 1x PCl
AIHV-EP2-i	2	1	1	2	4	8-bit isolated DI & 8-bit isolated DO	6	4	2	3	1x PCle x16, 1x PCle x4
AIHV-EP3-i	2	1	1	2	4	8-bit isolated DI & 8-bit isolated DO	6	4	2	3	2x PCI

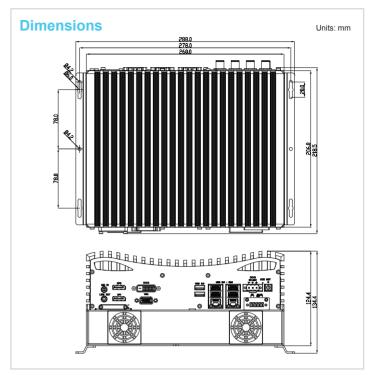
Specifications

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			
	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			
	1x VGA/1920x1200@60Hz			
Triple Display Ports	2x DP + 1x DVI			
Combinations	2x DP + 1x VGA			
	1x DP + 1x DVI + 1x VGA			
Ethernet	2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports			
	iAMT 11.0			
PoE	4x M12 GbE PoE+ (Intel®i210) 802.3at support up to 30W			
USB 3.0/2.0	6x USB 3.0 ports via native XHCI controller (0.9A each port)			
СОМ	2x RS-232/422/485 (auto flow control), 4x RS-232 port			
Digital I/O	16-bit programmable DIO (AIHV-EP)			
-	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIHV-EP-i)			
Audio	ALC892 HD Audio Codec, Mic in, Line out			

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	AIHV-EP1: 1x PCIe x16 + 1x PCI (PCI slot can't concurrent with IOM2)			
	AIHV-EP2: 1x PCIe x16 + 1x PCI x4 (PCIe x4 slot can't concurrent with IOM2)			
	AIHV-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			
000				
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), 4x GbE/PoE (M12), 6x USB 3.0, 2x RS-232/422/485, 4x RS-232, 3x internal SATA port for 2.5" HDD/SSD 16-bit Dl0, 1x PCle x16, 1x PCl Model Name Barebone System

AIHV-EP2 Barebone System 16-bit DIO, 1x PCle x16, 1x PCle x4

Barebone System 16-bit DIO, 2x PCI 8-bit isolated DI & 8-bit isolated DO, 1x PCIe x16, 1x PCI 8-bit isolated DI & 8-bit isolated DO, 1x PCIe x16, 1x PCIe x4 AIHV-EP1-i Barebone System AIHV-EP2-i Barebone System

AIHV-EP3-i Barebone System 8-bit isolated DI & 8-bit isolated DO, 2x PCI

CPU (Optional) 6th Gen Skylake

our our only run.	
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 L	ake
i7-7700T	Core™ i7-7700T (4 cores/8 threads, 2.9 GHz/3.8 GHz, 8MB cache, 35W TDP)
i5-7500T	Core™ i5-7500T (4 cores/4 threads, 2.7 GHz/3.3 GHz, 6MB cache, 35W TDP)
i3-7101TE	Core™ i3-7101TE (2 cores/4 threads, 3.4 GHz, 3MB cache, 35W TDP)

Optional Accessories

(Please contact sales representative)

IOM2 Module

iDIO-818O

Talella I I	IOM-4GR	4x RJ45 GbE		
	IOM-4GRP	4x RJ45 GbE with PoE (30.4W each port)		
THE COLUMN THE PARTY OF THE PAR	IOM-4GM	4x M12 GbE		
10.0	IOM-4GMP	4x M12 GbE with PoE (30.4W each port)		
	IOM-2SFP+	2x 10GbE Fiber ethernet		
Isolated Module				

8-bit isolated DI & 8-bit isolated DO module

(Please contact sales representative)

AC-DC Power Adapter

Other Accessories

AO-DO I OWEI Ada	ptei
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 AIHV-EP x1
2	Rubber Foot x4 with M3x6 screws x6

^{*} Please contact sales representative