Eagle Eyes-AIHL-W16th/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: various I/O function modules available
- Remote on/off power switch with LED
- Easily replaceable RTC battery holder
- 3x SIM push-push slots

















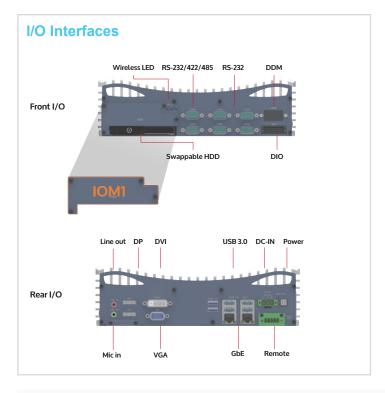
I/O Comparison Chart

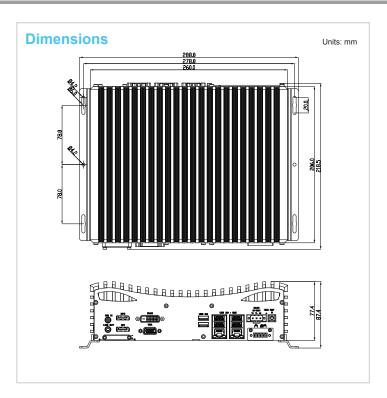
Model Name	DP	DVI	VGA	GbE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	External 2.5" Disk Bay	Internal 2.5" Disk Bay
AIHL-W1	2	1	1	2	16-bit DIO	6	4	2	1	2
AIHL-W1-i	2	1	1	2	8-bit isolated DI & 8-bit isolated DO	6	4	2	1	2

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			
Remote/ignition				
Power Mode	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 77.42(H) mm (10.24" x 8.11" x 3.05")			
Weight (net/gross)	3.7kg			
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			
Luiemet	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-W1)			
	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIHL-W1-i)			
Audio	ALC892 HD Audio Codec, Mic in, Line out			
SIM	3x SIM push-push slots			

Storage					
Internal Drive Bay	2x internal SATA port for 2.5" HDD/SSD				
mSATA	3x full length mSATA (muxed with Mini-PCIe)				
Removable Drive Bay	1x swappable 2.5" HDD/SSD				
RAID Mode	RAID 0/1/5				
Expansion slot					
Mini-PCle	3x full length Mini-PCIe (muxed with mSATA, auto detection)				
IOM1 (optional)	Supports IOM1 module				
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				
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, 2x internal SATA port for 2.5" HDD/SSD, 1x swappable 2.5" HDD/SSD

Model Name

AIHL-W1 Barebone System

AIHL-W1-i Barebone System 16-bit DIO

8-bit isolated DI & 8-bit isolated DO

CPU (Optional)

CFO (Optional)					
6th Gen Skylake					
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)				
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

IOM1 Module

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	IOM3-4GR	I4x RJ45 GbE
	IOM3-4GRP	4x RJ45 GbE with PoE (30.4W each port)
	IOM3-4GM	4x M12 GbE
100	IOM3-4GMP	4x M12 GbE with PoE (30.4W each port)
	IOM3-4U3	4x USB 3.0

Isolated Module

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

Other Accessories

AC-DC Power Adapter

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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-PCIe 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

Item No.		
1	Eagle Eyes Embedded Box PC AIHL-W1 x1	
2	Rubber Foot x4 with M3x6 screws x6	

^{*} Please contact sales representative