# **Eagle Eyes-AIHV-W1**

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: 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

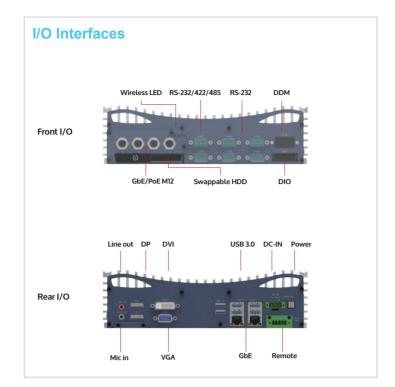
Model Name	DP	DVI	VGA	GbE (RJ45)	GbE / PoE (M12)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	External 2.5" Disk Bay	Internal 2.5" Disk Bay
AIHV-W1	2	1	1	2	4	16-bit DIO	6	4	2	1	2
AIHV-W1-i	2	1	1	2	4	8-bit isolated DI & 8-bit isolated DO	6	4	2	1	2

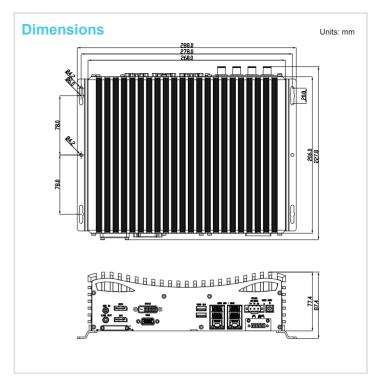
# **Specifications**

System	
System CPU	6th/7th Gen Intel® Xeon® E3/Core™ S (formerly Skylake/Kaby Lake)
CFU	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)
<b>Grapine</b>	Core™ I Series: HD Graphics 530 (Skylake)/F630 (Kaby Lake)
	Pentium®/Celeron®: HD Graphics 510 (Skylake)/610 (Kaby Lake)
BIOS	AMI 128Mbit SPI BIOS
Al Controller (AIC) Watchdog Timer	Al for system monitoring and predictive analysis
watchdog rimer	Runtime: 10 – 65535 seconds
TD14 (4'1)	Powerup: 120 – 65535 seconds
TPM (optional)	SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)
D	
Power	0.000/D0
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 contro
	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)	0.30 mon con work with Alo to display system status
,	
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)
COM	2x RS-232/422/485 (auto flow control), 4x RS-232 port
Digital I/O	16-bit programmable DIO (AIHV-W1)
g •	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIHV-W1-i)
Audio	ALC892 HD Audio Codec, Mic in, Line out
SIM	3x SIM push-push slots
O.I.I.	ON OHN PROHI PROHI BIOLO

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-PCIe	3x full length Mini-PCIe (muxed with mSATA, auto detection)		
IOM1 (optional)	NA NA		
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; 1Grms 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	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), 4x GbE/PoE (M12), 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
 2x GbE (RJ45), 4x GbE/PoE (M12)

 AIHV-W1
 Barebone System
 16-bit DIO

 AIHV-W1-i
 Barebone System
 8-bit isolated DI & 8-bit isolated DO

#### CPU (Optional)

or o (optional)					
6th Gen Skylake	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**

#### Isolated Module

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

### **Other Accessories**

## AC-DC Power Adapter

AC-DC FOWEI Aua	pter				
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**

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

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