# **Eagle Eyes-AIH**

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

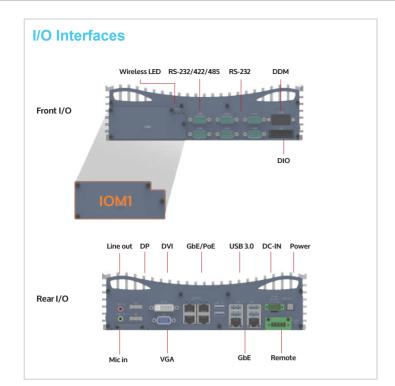
Model Name	DP	DVI	VGA	GbE (RJ45)	GbE / PoE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay
AIH	2	1	1	2	4	16-bit DIO	6	4	2	3
AIH-i	2	1	1	2	4	8-bit isolated DI & 8-bit isolated DO	6	4	2	3

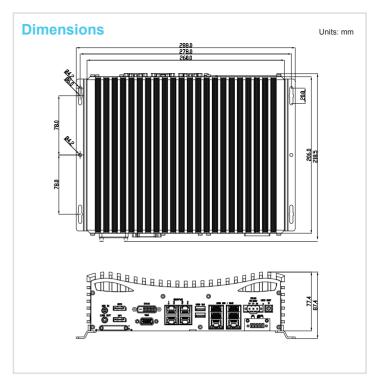
# **Specifications**

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 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
	1x VGA/1920x1200@60Hz
Triple Display Ports	2x DP + 1x DVI
	<u> </u>
	2x DP + 1x DVI
Combinations	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x DVI + 1x VGA
Combinations	2x DP + 1x DVI 2x DP + 1x VGA
Combinations  Ethernet	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x DVI + 1x VGA 2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0
Combinations  Ethernet  PoE	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x DVI + 1x VGA 2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0 4x RJ45 GbE PoE+ (Intel®i210 ) 802.3at support up to 30W
Triple Display Ports Combinations  Ethernet  PoE USB 3.0/2.0 COM	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x VGA 1x DP + 1x DVI + 1x VGA 2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0 4x RJ45 GbE PoE+ (Intel®i210 ) 802.3at support up to 30W 6x USB 3.0 ports via native XHCI controller (0.9A each port)
Combinations  Ethernet  PoE  USB 3.0/2.0  COM	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x VGA 1x DP + 1x DVI + 1x VGA 2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0 4x RJ45 GbE PoE+ (Intel®i210 ) 802.3at support up to 30W 6x USB 3.0 ports via native XHCl controller (0.9A each port) 2x RS-232/422/485 (auto flow control), 4x RS-232 port
Combinations  Ethernet  PoE  USB 3.0/2.0  COM	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x VGA 1x DP + 1x VGA 2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0 4x RJ45 GbE PoE+ (Intel®i210 ) 802.3at support up to 30W 6x USB 3.0 ports via native XHCl controller (0.9A each port) 2x RS-232/422/485 (auto flow control), 4x RS-232 port 16-bit programmable DIO (AIH)
Combinations Ethernet PoE USB 3.0/2.0	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x VGA 1x DP + 1x DVI + 1x VGA 2x RJ45 GbE (Intel®i219 + Intel®i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0 4x RJ45 GbE PoE+ (Intel®i210 ) 802.3at support up to 30W 6x USB 3.0 ports via native XHCl controller (0.9A each port) 2x RS-232/422/485 (auto flow control), 4x RS-232 port

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 (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 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 (RJ45), 6x USB 3.0, 2x RS-232/422/485, 4x RS-232, 3x internal SATA port for 2.5" HDD/SSD

Model Name
AIH Barebone System

AIH-i Barebone System 8-bit isolated DI & 8-bit isolated DO

#### CPII (Ontional)

CFU (Optional)			
6th Gen Skylak	9		
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

TATE OF THE PARTY	IOM1-4GR	4x RJ45 GbE
	IOM1-4GRP	4x RJ45 GbE with PoE (30.4W each port)
THE STATE OF THE S	IOM1-4GM	4x M12 GbE
10.0	IOM1-4GMP	4x M12 GbE with PoE (30.4W each port)
- S	IOM1-4U3	4x USB 3.0
	IOM1-2SFP+	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-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

racking List				
Item No.				
1	Eagle Eyes Embedded Box PC AIH x1			
2	Pubber Foot v4 with M3v6 screws v6			

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