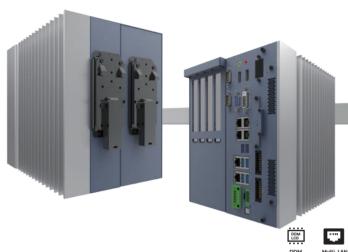
Eagle Eyes-AIHD-P4E

6th/7th gen Intel® Xeon® E3/Core™ S Series (FCLGA1151 Socket) DIN Rail 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:
- One side bezel access and easy cable management
- Remote on/off power switch with LED
- Easily replaceable RTC battery holder
- 3x SIM push-push slots



















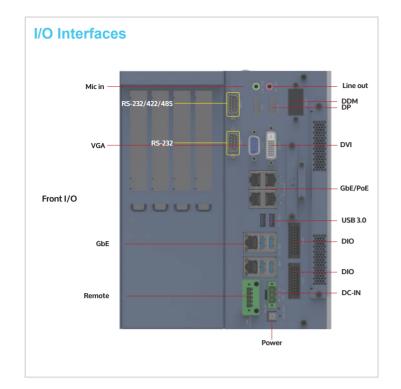
Model Name	DP	DVI	VGA	GbE (RJ45)	GbE / PoE (RJ45)	DIO	USB 3.0	RS-232	RS-232 / 422 / 485	Internal 2.5" Disk Bay	Expansion Slot
AIHD-P4E1	2	1	1	6	0	32-bit DIO	6	1	1	3	1x PCle x16, 3x PCl
AIHD-P4E1-i	2	1	1	6	0	16-bit DIO, 8-bit isolated DI & 8-bit isolated DO	6	1	1	3	1x PCle x16, 3x PCl
AIHD-P4E1-i2	2	1	1	6	0	16-bit isolated DI & 16-bit isolated DO	6	1	1	3	1x PCIe x16, 3x PCI
AIHDP-P4E1	2	1	1	2	4	32-bit DIO	6	1	1	3	1x PCIe x16, 3x PCI
AIHDP-P4E1-i	2	1	1	2	4	16-bit DIO, 8-bit isolated DI & 8-bit isolated DO	6	1	1	3	1x PCIe x16, 3x PCI
AIHDP-P4E1-i2	2	1	1	2	4	16-bit isolated DI & 16-bit isolated DO	6	1	1	3	1x PCle x16, 3x PCl

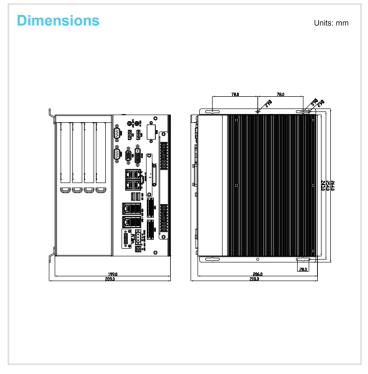
Specifications

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System	Cth/7th Can Intal® Vacan® F3/Cana TM C (formand), Cladela (MCharles)				
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: DDR4-240				
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)					
Weight (net/gross)	4.5kg				
Mounting	DIN rail mount, wall mount bracket and foot stand				
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	6x RJ45 GbE (1x Intel®i219+ 5x Intel®i210) / Wake-on-LAN and PXE/				
	i219 supports iAMT 11.0 (AIHD-P4E1)				
	2x RJ45 GbE (1x Intel®i219+ 5x Intel®i210) / Wake-on-LAN and PXE/				
	i219 supports iAMT 11.0 (AIHDP-P4E1)				
PoE	4x RJ45 GbE PoE+ (Intel®i210) 802.3at support up to 30W (AIHDP-P4E1)				
USB 3.0/2.0	6x USB 3.0 ports via native XHCI controller (0.9A each port)				
COM	1x RS-232/422/485 (auto flow control), 1x RS-232 port				
Digital I/O	32-bit programmable DIO (AIHD-P4E1, AIHDP-P4E1)				
	16-bit programmable DIO, isolated 8-bit DI & 8-bit DO, Sink/Source Mode,				
	5~48V, 100mA (AIHD-P4E1-i, AIHDP-P4E1-i)				
	16-bit isolated DI & 16-bit isolated DO, Sink/Source Mode, 5~48V, 100mA				
	(AIHD-P4E1-i2, AIHDP-P4E1-i2)				
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-PCIe)			
Removable Drive Bay	NA			
RAID Mode	RAID 0/1/5			
Expansion slot				
Mini-PCle	3x full length Mini-PCIe (muxed with mSATA, auto detection)			
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; 1 Grms 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	CB			
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			

Shenzhen CN





Ordering Information

Remark: Following models include 6th/7th Gen Intel® Skylake S/Kaby Lake S (SKL-S/KBL-S) platform, LGA1151 socket desktop CPU, 2x DP, 1x DVI, 1x VGA, 6x USB 3.0,

Model Name		1x RS-232/422/485, 1x RS-232, 3x internal SATA port for 2.5" HDD/SSD,1x PCIe x16, 3x PCI
AIHD-P4E1	Barebone System	6x GbE (RJ45), 32-bit DIO
AIHD-P4E1-i	Barebone System	6x GbE (RJ45), 16-bit DIO,8-bit isolated DI & 8-bit isolated DO
AIHD-P4E1-i2	Barebone System	6x GbE (RJ45), 16-bit isolated DI & 16-bit isolated DO
AIHDP-P4E1	Barebone System	2x GbE (RJ45), 4x GbE/PoE (RJ45), 32-bit DIO
AIHDP-P4E1-i	Barebone System	2x GbE (RJ45), 4x GbE/PoE (RJ45), 16-bit DIO,8-bit isolated DI & 8-bit isolated DO
AIHDP-P4F1-i2	Barehone System	2x GhE (R.I45), 4x GhE/PoE (R.I45), 16-bit isolated DL & 16-bit isolated DO

CPU (Optional)

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6th Gen Skyla	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)
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
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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-loT/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
UTA-159	Phoenix Contact DIN Rail Clip with M3x6 screws x6

Packing List

<u> </u>			
Item No.			
1	Eagle Eyes Embedded Box PC AIHD-P4E x1		

^{*} Please contact sales representative