

# Eagle Eyes-AIHD

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/OC 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



## 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
AIHD	2	1	1	6	0	32-bit DIO	6	1	1	3
AIHD-i	2	1	1	6	0	16-bit DIO, 8-bit isolated DI & 8-bit isolated DO	6	1	1	3
AIHD-i2	2	1	1	6	0	16-bit isolated DI & 16-bit isolated DO	6	1	1	3
AIHDP	2	1	1	2	4	32-bit DIO	6	1	1	3
AIHDP-i	2	1	1	2	4	16-bit DIO, 8-bit isolated DI & 8-bit isolated DO	6	1	1	3
AIHDP-i2	2	1	1	2	4	16-bit isolated DI & 16-bit isolated DO	6	1	1	3

## Specifications

<b>System</b>	
<b>CPU</b>	6th/7th Gen Intel® Xeon® E3/Core™ S (formerly Skylake/Kaby Lake) LGA1151 socket type CPU (supports TDP up to 35W)
<b>Chipset</b>	Intel®C236 Chipset
<b>Memory</b>	2x DDR4 SO-DIMM Max. 64Gb (Skylake: DDR4-2133; Kaby Lake: DDR4-2400)
<b>Graphic</b>	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)
<b>BIOS</b>	AMI 128Mbit SPI BIOS
<b>AI Controller (AIC)</b>	AI for system monitoring and predictive analysis
<b>Watchdog Timer</b>	Runtime: 10 – 65535 seconds Powerup: 120 – 65535 seconds
<b>TPM (optional)</b>	SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)
<b>Power</b>	
<b>DC Input</b>	9~36VDC
<b>Surge Protection</b>	200V/1ms
<b>Power in Protection</b>	Reverse-Voltage, Over-Voltage, Under-Voltage, Over-Current
<b>Remote/Ignition</b>	1x ATX power on/off switch, 5-pin terminal block including 3-pin remote control and 2-pin ignition signals (pitch 3.81 mm)
<b>Power Mode</b>	AT/ATX (BIOS setting)
<b>Mechanical</b>	
<b>Dimensions (W x D x H)</b>	102(W) x 206(D) x 243(H) mm (4.01" x 8.11" x 9.57")
<b>Weight (net/gross)</b>	4.5kg
<b>Mounting</b>	DIN rail mount, wall mount bracket and foot stand
<b>Construction</b>	Aluminum and metal chassis with fanless design
<b>Battery</b>	Easily replaceable RTC battery holder
<b>Dynamic Display Module (DDM)</b>	0.96 inch LCM work with AIC to display system status
<b>External IO</b>	
<b>Display Ports / Resolution</b>	2x DP /4096x2304@60Hz 1x DVI/1920x1200@60Hz 1x VGA/1920x1200@60Hz
<b>Triple Display Ports Combinations</b>	2x DP + 1x DVI 2x DP + 1x VGA 1x DP + 1x DVI + 1x VGA
<b>Ethernet</b>	6x RJ45 GbE (1x Intel®i219+ 5x Intel®i210) / Wake-on-LAN and PXE/ i219 supports iAMT 11.0 (AIHD) 2x RJ45 GbE (1x Intel®i219+ 5x Intel®i210) / Wake-on-LAN and PXE/ i219 supports iAMT 11.0 (AIHDP)
<b>PoE</b>	4x RJ45 GbE PoE+ (Intel®i210) 802.3at support up to 30W (AIHDP)
<b>USB 3.0/2.0</b>	6x USB 3.0 ports via native XHCI controller (0.9A each port)
<b>COM</b>	1x RS-232/422/485 (auto flow control), 1x RS-232 port
<b>Digital I/O</b>	32-bit programmable DIO (AIHD, AIHDP) 16-bit programmable DIO, isolated 8-bit DI & 8-bit DO, Sink/Source Mode, 5~48V, 100mA (AIHD-i, AIHDP-i) 16-bit isolated DI & 16-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIHD-i2, AIHDP-i2)
<b>Audio</b>	ALC892 HD Audio Codec, Mic in, Line out
<b>SIM</b>	3x SIM push-push slots

<b>Storage</b>	
<b>Internal Drive Bay</b>	3x internal SATA port for 2.5" HDD/SSD
<b>mSATA</b>	3x full length mSATA (muxed with Mini-PCIe)
<b>Removable Drive Bay</b>	NA
<b>RAID Mode</b>	RAID 0/1/5
<b>Expansion slot</b>	
<b>Mini-PCIe</b>	3x full length Mini-PCIe (muxed with mSATA, auto detection)
<b>Other</b>	
<b>USB 2.0 Dongle</b>	Internal 1x USB 2.0 for dongle security key
<b>Antenna</b>	4x antenna openings
<b>LED</b>	Power status, HDD status, IO status
<b>Environment</b>	
<b>Operating Temperature</b>	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)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Relative Humidity</b>	95% @ 40°C (104°F), non-condensing
<b>Vibration During Operation (IEC60068-2-64: Random 5~500Hz)</b>	5Grms with SSD; 1Grms with HDD
<b>Shock During Operation (IEC60068-2-27: Half Sine, 11ms Duration)</b>	50Grms with SSD; 20Grms with HDD
<b>Certification</b>	
<b>EMC</b>	CE/FCC Class A
<b>Safety Certifications</b>	CB
<b>OS Support</b>	
<b>Optional OS Installation</b>	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

