

Eagle Eyes-AIHL

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/OC 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

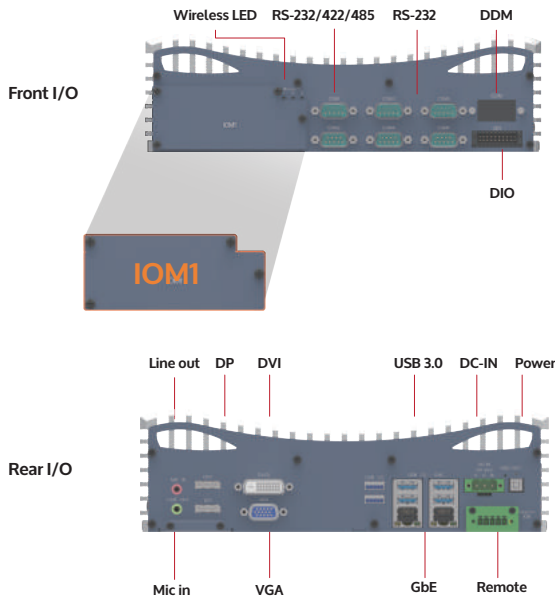
| Model Name | DP | DVI | VGA | GbE (RJ45) | DIO | USB 3.0 | RS-232 | RS-232 / 422 / 485 | Internal 2.5" Disk Bay |
|------------|----|-----|-----|------------|---------------------------------------|---------|--------|--------------------|------------------------|
| AIHL | 2 | 1 | 1 | 2 | 16-bit DIO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

Specifications

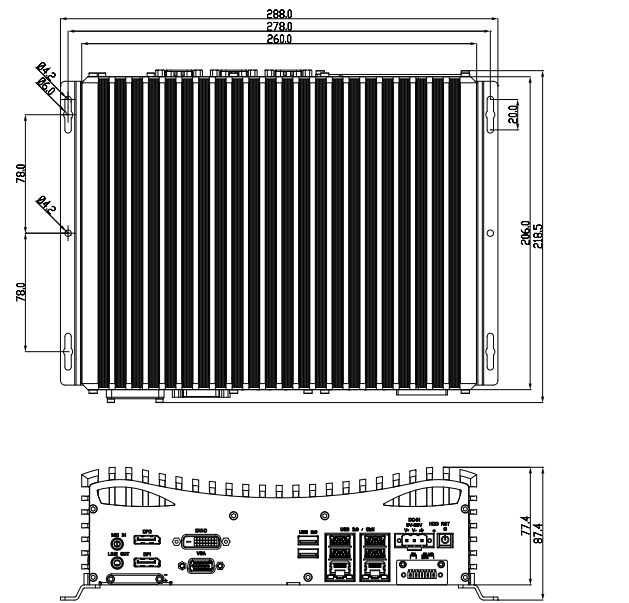
| System | |
|--|---|
| CPU | 6th/7th Gen Intel® Xeon® E3/Core™ S (formerly Skylake/Kaby Lake) LGA1151 socket type CPU (supports TDP up to 35W) |
| Chipset | Intel®C236 Chipset |
| Memory | 2x DDR4 SO-DIMM Max. 64GB (Skylake: DDR4-2133; Kaby Lake: DDR4-2400) |
| Graphic | Xeon®: HD Graphics P530 (Skylake)/P630 (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 |
| AI Controller (AIC) | AI 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 Module (DDM) | 0.96 inch LCM work with AIC to display system status |
| External IO | |
| Display Ports / Resolution | 2x DP/4096x2304@60Hz 1x DVI/1920x1200@60Hz 1x VGA/1920x1200@60Hz |
| Triple Display Ports Combinations | 2x DP + 1x DVI 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 | 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) 8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA (AIHL-i) |
| 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-PCIe | 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 | 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 |

I/O Interfaces



Dimensions



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, 3x internal SATA port for 2.5" HDD/SSD

| Model Name | |
|------------------------|---------------------------------------|
| AIHL Barebone System | 16-bit DIO |
| AIHL-i Barebone System | 8-bit isolated DI & 8-bit isolated DO |

CPU (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

| | | |
|--|------------|--|
| | IOM1-4GR | 4x RJ45 GbE |
| | IOM1-4GRP | 4x RJ45 GbE with PoE (30.4W each port) |
| | IOM1-4GM | 4x M12 GbE |
| | IOM1-4GMP | 4x M12 GbE with PoE (30.4W each port) |
| | IOM1-4U3 | 4x USB 3.0 |
| | IOM1-2SFP+ | 2x 10GbE Fiber ethernet |

Isolated Module

| | |
|-----------|--|
| iDIO-8I8O | 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

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

* Please contact sales representative