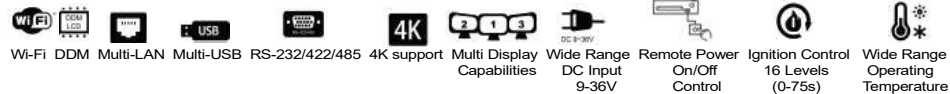


Eagle Eyes - AIH

7th Generation Intel® Xenon® E3/Core™ S Series (FCLGA1151 Socketed) Box Computer, 2x RJ45 Gbe, 4xRJ45 Gbe/PoE



Models shown with Optional Antennas Kit



Specifications

System

| | |
|----------------------------|---|
| CPU | 7 th Gen Intel® Core™ S (formerly Kaby Lake) LGA 1151 socketed CPU Core™ I7-7700T (4 cores/8 threads, 2.9GHz/3.8GHz, 8MB cache, 35W TDP) |
| Chipset | Intel® C236 Chipset |
| Memory | Two DDR4 – 2133/2400 SO-DIMM (Max. 64 GB) |
| Graphics | Intel® HD Graphics 630 |
| 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 |

Power

| | |
|----------------------------|--|
| DC Input | 9 – 36V |
| Surge Protection | 200V/1ms |
| Power in Protection | Reverse-Voltage, Over-Voltage, Under-Voltage, and Over-Current |
| Remote Ignition | One ATX power on/off switch, 5-pin terminal block including 3-pin remote control & 2-pin ignition signals (pitch 3.81mm) |
| Power Mode | AT/ATX (BIOS setting) |

External I/O

| | |
|-------------------------------------|---|
| Video Ports / Resolution | Two DP / 4096x2304@60Hz One DVI-D / 1920x1200@60Hz One VGA / 1920x1200@60Hz |
| Video Ports Combinations | Two DP + one DVI-D One DP + one VGA |
| Ethernet | Two RJ45 GbE (Intel® i219 + Intel® i210) / Wake -on-LAN and PXE / i219 supports iAMT 11.0 |
| Digital I/O | 16-bit programmable DIO |
| USB 3.0 / 2.0 | Six USB 3.0 ports via native XHCI controller (0.9A each port) |
| COM | Two RS-232/422/485 (auto flow control) and four RS-232 ports |
| Wi-Fi/Cellular Communication | Supports Wi-Fi/LTE modules via 3x Mini PCIe interfaces |
| Audio | ALC892HD audio codec, Mic-in/Line-out jack |
| PoE | Four RJ45 GbE PoE+ (Intel® i210) 802.3at support up to 30W |
| SIM and USIM Socket Support | Three SIM Push-Push sockets – SIM supports 2G USIM supports 3 & 4G |

Optional Accessories

IOM1 Module



| | |
|--------------------|--|
| IOMH1-4GR | Four RJ45 GbE |
| IOMH1-4GRP | Four RJ45 GbE with PoE (30.4W each port) |
| IOMH1-4GM | Four M12 GbE |
| IOMH1-GMP | Four M12 GbE with PoE (30.4W each port) |
| IOMH1-4U3 | Four USB 3.0 |
| IOMH1-2SFP+ | 2x10 GbE Fiber ethernet |

Wireless Module

| | |
|---------------------|---|
| Wi-Fi Module | Bointec DPE109A, WLAN 802.11abgn/AC2T2R with BT4.2 mini-PCIe half-size card support |
| LTE Module | Customer choice based on regional requirements |

Features

- Wi-Fi and Wireless Communications: 4G, WLAN, GPS, GSM/GPRS, and Bluetooth
- Intelligent eKit with AI Function to monitor system status via the DDM
- Special Power Design:
 - * Wide voltage 9 - 36V DC input
 - * RVP / OVP / UVP / OCP support
 - * Surge protection: 200V/1ms
 - * Power ignition control
- Easy Expansion and Installation:
 - * Easy system upgrade capability
 - * On / Off power switch with status LED
 - * Remote on / off capabilities
 - * Easily replaceable RTC battery
 - * Three Mini-PCIe interfaces
 - * Three SIM Push-Push sockets

Mechanical

| | |
|-------------------------------------|--|
| Dimensions (WxDxH) | 260(W) mm x 206(D) mm x 77.42(H) mm (10.25"x 8.11"x 3.05") |
| Weight (net/gross) | 3.7kg |
| Table or Wall Mount | Six Rubber anti-slide pads |
| Construction | Aluminum and metal chassis with fanless design |
| Battery | Easily replaceable RTC battery |
| Dynamic Display Module (DDM) | 0.96" LCM works with AIC to display system status |

Storage

| | |
|---------------------------|--|
| Internal Drive Bay | Three internal SATA ports for 2.5" SSD |
| RAID Mode | RAID 0/1/5 |

Other

| | |
|-----------------------|--|
| USB 2.0 Dongle | One internal USB 2.0 for dongle security key |
| Antenna | Four Antenna openings |
| LED | Power status, SSD status, and I/O status |

Environment

| | |
|-----------------------------------|---|
| Storage Temperature | -40°C - -85°C (-40°F - -185°F) |
| Operating Temperature | Standard: -20°C - +50°C (-4°F - +122°F), supports 35W TDP CPU Extended temperature: -25°C - +70°C (-13°F - +158°F) |
| Relative Humidity | 95% @ -40°C (+104°F), non-condensing |
| Vibration During Operation | 5Gms with SSD (IEC60068-2-64: random 5-500Hz) |
| Shock During Operation | 50Gms with SSD (IEC60068-2-27: Half Sine, 11ms duration) |

Certifications

| | |
|--------------------------------|----------------|
| EMC | CE/FCC Class A |
| Safety Certification(s) | CB |

OS Support

| | |
|----------------|-----------------------|
| Windows | Windows 10 IoT 64-bit |
| Linux | Linux |

Cable & Connectors

| | |
|-----------------|--|
| CBL-S01 | One SATA (Data + Power) cable |
| TBP5-S03 | One 3-Pin, pitch 5.0mm Female Terminal Block Plug for DC input |
| TBP3-S05 | One 5-Pin, pitch 3.81mm Female Terminal Block Plug for remote connector |
| TBP3-D20 | One 2x10-Pin, pitch 2.54 mm Female Terminal Block Plug for DIO Connector |

Mounting Kits

| | |
|----------------|--|
| WBK-AIH | Two Wall mount brackets with Six (6) M3x6 screws |
|----------------|--|

TPM

| | |
|------------|---------------------------------------|
| TPM | Infineon OPTIGA™ TPM SLB 9665 TPM 2.0 |
|------------|---------------------------------------|

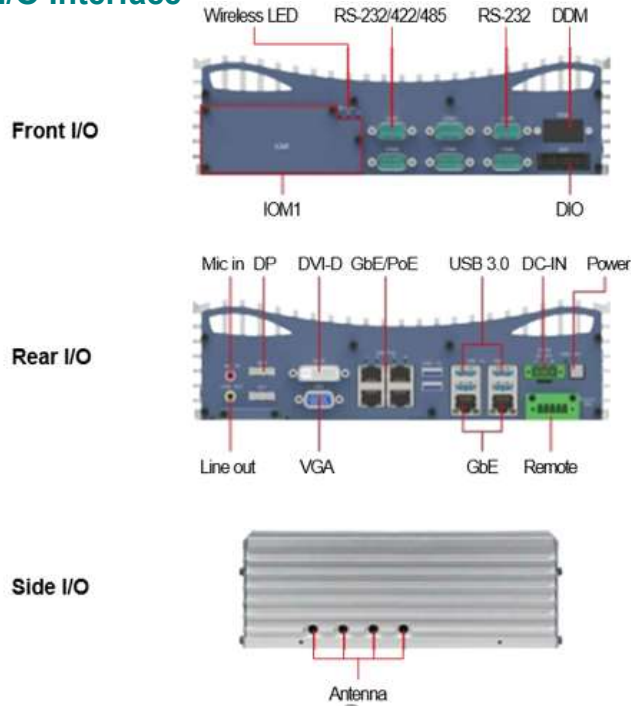
Antenna Kits

| | |
|-------------------------|--|
| 20140-000031-A.0 | Wi-Fi, one mini-PCIe half to full size adapter bracket, two antennas supporting IPX/MHF to SMA_JR 300 MM, WITH TWO 2.4G RP SMA Plugs (3dB) |
| 2014-000022-A.0 | Cellular, two antennas supporting IPX/MHF (Female) to SMA ST Jack (Male), 300 mm, two LTE 704-960/1710-2690MHz SMA ST Plug 2(dB) 50 Ω 161 mm |

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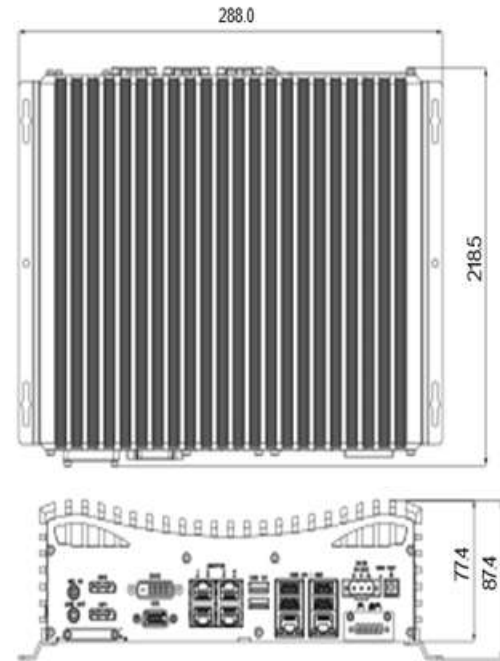
7th Generation Intel® Xenon® E3/Core™ S Series (FCLGA1151 Socketed) Box Computer, 2x RJ45 Gbe, 4xRJ45 Gbe/PoE

I/O Interface



Dimensions

units: mm



I/O Chart

| Model Name | DP | DVI-D | VGA | GbE (RJ45) | GbE / PoE (RJ45) | DIO | USB 3.0 | RS-232 | RS-232/422/485 | M.2 2280 NVMe | Internal 2.5" Disk Bay |
|------------|----|-------|-----|------------|------------------|------------|---------|--------|----------------|---------------|------------------------|
| AIH | 2 | 1 | 1 | 2 | 4 | 16-bit DIO | 6 | 4 | 2 | 0 | 3 |

Order Information

Part Number

AIH-7700t-8G-2.5S256G-P216B12 Intel® 7th Gen Kaby Lake S (KBL-S) platform, LGA 1151 Socketed i7-7700T CPU, 2x DP, 1x DVI, 1x VGA, 2x GbE (RJ45), 4x GbE/PoE (RJ45), 6x USB 3.0, 1x RS-232/422/485, 1x RS-232, 32-Bit DIO, 3x Internal SATA ports for 2.5" SSD, DIN Rail, 8GB RAM, 256 GB 2.5" SATA SSD, 160W Power Adapter & Cord.

Packing List

- Eagle Eyes – AIH Embedded Box PC x 1
- AC-DC Power Adapter (24V/160W) with pitch 5.0mm 3-pin terminal block plug
- AC-DC Power Cord YP-12/YC-12, plug type B, American (USA)
- Six anti-slide rubber pads