Eagle Eyes - AIH

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

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

Models shown with Optional Antennas Kit

Wi-Fi | DDM | Multi-LAN | Multi-USB | RS-232/422/485 | 4K support | Multi Display Capabilities | Wide Range DC Input 9-36V | Remote Power On/Off Control | Ignition Control 16 Levels (0-75s) | Wide Range Operating Temperature

Specifications

System

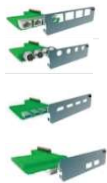|	
CPU	7th Gen Intel® Core™ S (formerly Kaby Lake) LGA 1151 socketed CPU Core™ I7-7700T (4 cores/8 threads, 2.9GHz/3.8GHz, 8MB cache, 35W TDP)
Chipset	Intel® C236 Chipset
Memory	Two DDR4 – 2133/2400 SO-DIMM (Max. 64 GB)
Graphics	Intel® HD Graphics 630
BIOS	AMI 128Mbit SPI BIOS
AI Controller (AIC)	AI 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 Two DP + one VGA One DP + one DVI-D + 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

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 (-47°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

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

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

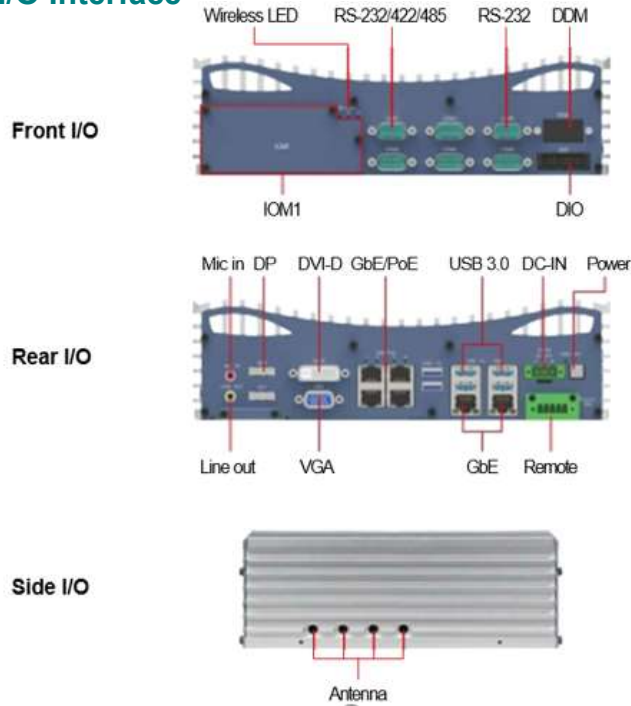|	
TPM	Infineon OPTIGA™ TPM SLB 9665 TPM 2.0

Antenna Kits

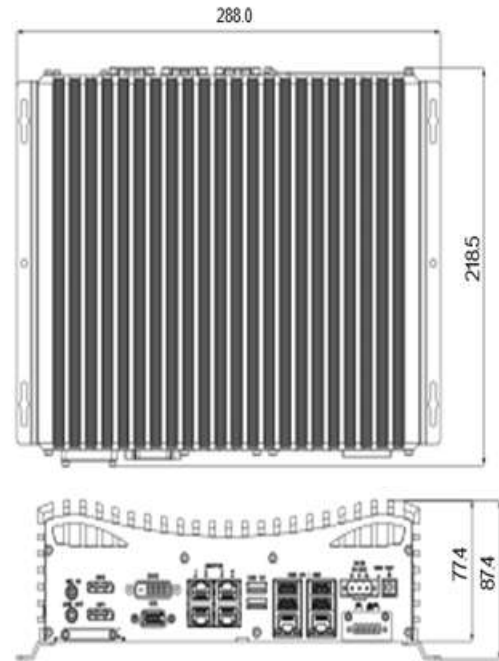|	
20140-000031-A.0	Wi-Fi, one mini-PCIe half to full size adapter bracket, two antennas supporting IPX/MHF to SMA_JR 300 MM, WITH TWO 2.4G RP SMA Plugs (3dB)
2014-000022-A.0	Cellular, two antennas supporting IPX/MHF (Female) to SMA ST Jack (Male), 300 mm, two LTE 704-960/1710-2690MHz SMA ST Plug 2(dB)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

Note: All product specifications are subject to change without notice.

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I/O Interface

Front I/O

Wireless LED   RS-232/422/485   RS-232   DDM

IOM1   DIO

Rear I/O

Mic in   DP   DVI-D   GbE/PoE   USB 3.0   DC-IN   Power

Line out   VGA   GbE   Remote

Side I/O

Antenna

Dimensions

units: mm

288.0

218.5

77.4
87.4

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 BgE/PoE (RJ$%), 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

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