Eagle Eyes-AIHDP

7th Generation Intel® Xeon® E3/Core™ S Series (FCLGA1151 Socketed) DIN Rail Box Computer, 6x RJ45 GbE

Models shown with optional Antenna Kit

Features

- Wi-Fi and Wireless Communication: 4G, WLAN, GPS, GSM/GPRS, and Bluetooth
- 7th Gen Intel® platform (formerly Kaby Lake), Core™ S i5 processor
- Supports LGA1151 socketed CPU up to 35W
- 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 & 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

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

Specifications

System

CPU	7th Gen Intel® Core™ S (formerly Kaby Lake) LGA 1151 CPU Core™ i5-7500T (4 cores/4 threads, 2.7GHz/3.3GHz, 6MB cache, 35W TDP
Chipset	Intel® C236 Chipset
Memory	Two DDR4 – 2133/2400 SO-DIMM Max. 64 GB
Graphics	Intel® D 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 Port Combination	Two DP + one DVI-D Two DP + one VGA Two DP + one DVI-D + one VGA
Ethernet	Wake-on-LAN and PXE i219 supports iAMT 11.0 Six RJ45 GbE (1x Intel® i219+5x Intel® i210)
I/O	32-bit programmable DIO
USB 3.0 / 2.0	Six USB 3.0 ports via native XHCI controller (0.9A each port)
COM	One RS-232/422/485 (auto flow control) and one RS-232 port
Wi-Fi/ Cellular Communications	Supports Wi-Fi/LTE modules via three Mini PCIe interfaces
Audio	ALC892HD audio codec, Mic-in/Line-out
SIM and USIM Socket support	Three SIM Push-Push sockets–SIM supports 2G USIM supports 3 & 4G

Mechanical

Dimensions (WxDxH)	102(W) mm x 206(D) mm x243(H) mm (4.01"x 8.11"x 9.57")
Weight (net/gross)	4.5kg
Mounting	DIN Rail mount included (Wall mount optional)
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	Internal 1x USB 2.0 for dongle security key
Antenna	Four Antenna openings
LED	Power status, SSD status, and I/O status

Environment

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)
Storage Temperature	-40°C - +85°C (-40°F - +185°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

Wireless Module

Wi-Fi Module	Intel® Wireless-AC 9260, 802.11ac 2x2 Wave 2 WLAN, and Bluetooth 5 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 3.81 mm 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	Wall mount bracket x 2 with Six (6) M3x6 screws

TPM

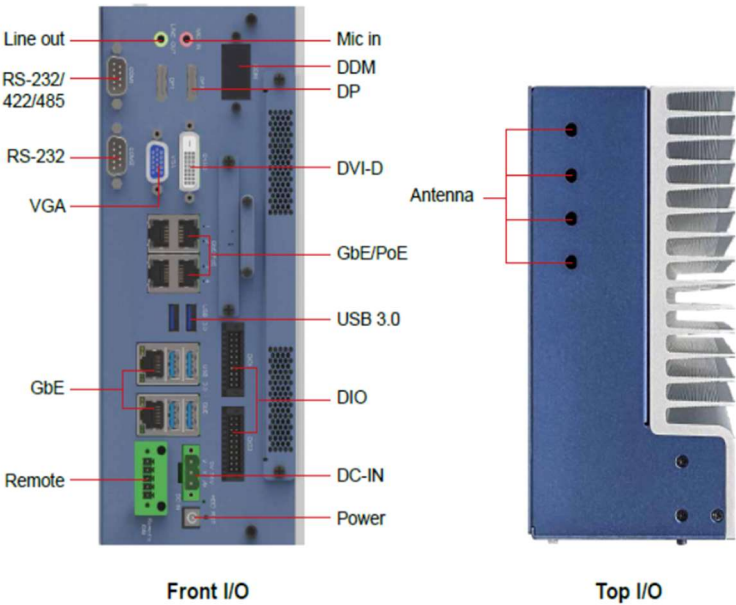|	
	Infineon OPTIGA™ TPM SLB 9665 TPM 2.0

Antenna Kits

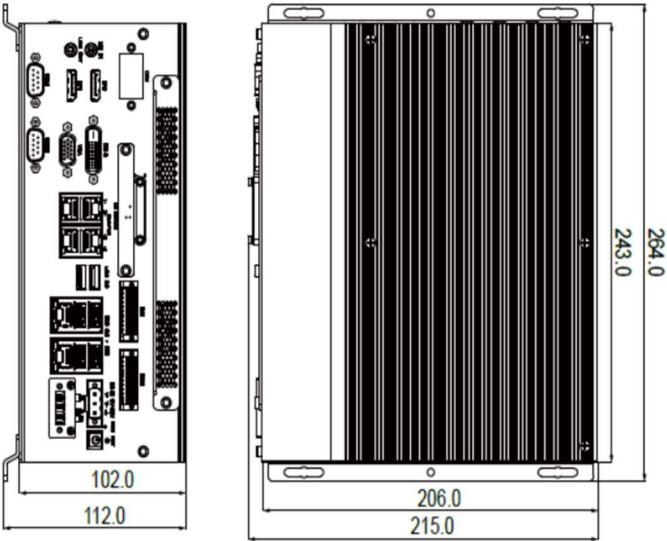|	
20140-000019-A.0	Wi-Fi, two antennas supporting IPX/MHF4 to SMA 300 mm, with two 2.4G RP SMA Plugs (3dB)
2014-000022-A.0	Cellular, two antennas supporting IPX/MHF (Female) to SMA ST Jack (Male), 300 mm, two LTE 704-960/1710-2690MHz SMA ST Plug 2(dB) 50 Ω 161 mm

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I/O Interfaces

Front I/O

Top I/O

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	Internal 2.5" Disk Bay
AIHDP	2	1	1	2	4	32-bit DIO	6	1	1	3

Order Information

Part Number	
AIHDP-7500T-8G-2.5S256G-P216B12	Intel® 7TH Gen Kaby Lake S (KBL-S) platform, LGA 1151 socketed i5-7500T CPU, 2x DP, 1x DVI, 1x VGA, 2x GbE(RJ45), 4x GbE/PoE(RJ45), 6x USB 3.0, 1x RS-232/455/485, 1x RS-232, 32-Bit DIO, 3x Internal SATA ports for 2.5" SSD, DIN Rail, 8GB RAM, 256GB 2.5" SATA SSD, 160W Power Adapter & Cord.

Packing List

1. Eagle Eyes – AIHDP 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. Phoenix Contact DIN Rail Clip with Six (6) M3.6 screws

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