

# Eagle Eyes - AIHD

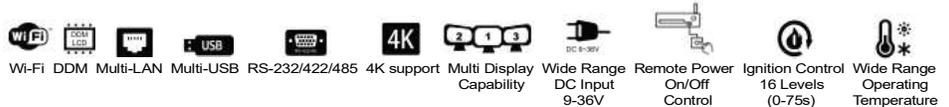
7th Generation Intel® Xenon® E3/Core™ S Series (FCLGA1151 Socketed) DIN Rail Box Computer, 6x RJ45 GbE



Models shown with Optional Antennas Kit

## 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
- 7th Gen Intel® platform (formerly Kaby Lake), Core™ S i5 processor
- Supports LGA1151 socketed CPU up to 35W
- 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



## Specifications

### System

<b>CPU</b>	7 <sup>th</sup> 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)
<b>Chipset</b>	Intel® C236 Chipset
<b>Memory</b>	Two DDR4 – 2133/2400 SO-DIMM Max. 64 GB
<b>Graphics</b>	Intel® D Graphics 630
<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

### Power

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

### External I/O

<b>Video Ports / Resolution</b>	Two DP / 4096x2304@60Hz One DVI-D / 1920x1200@60Hz One VGA / 1920x1200@60Hz
<b>Video Port Combination</b>	Two DP + one DVI-D Two DP + one VGA Two DP + one DVI-D + one VGA
<b>Ethernet</b>	Wake-on-LAN and PXE i219 supports iAMT 11.0 Six RJ45 GbE (1x Intel® i219+5x Intel® i210)
<b>I/O</b>	32-bit programmable DIO
<b>USB 3.0 / 2.0</b>	Six USB 3.0 ports via native XHCI controller (0.9A each port)
<b>COM</b>	One RS-232/422/485 (auto flow control) and one RS-232 port
<b>Wi-Fi/ Cellular Communications</b>	Supports Wi-Fi/LTE modules via three Mini PCIe interfaces
<b>Audio</b>	ALC892HD audio codec, Mic-in/Line-out
<b>SIM and USIM Socket support</b>	Three SIM Push-Push sockets—SIM supports 2G USIM supports 3 & 4G

## Optional Accessories

### Wireless Module

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

### Cable & Connectors

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

### Mechanical

<b>Dimensions (WxDxH)</b>	102(W) mm x 206(D) mm x243(H) mm (4.01"x 8.11"x 9.57")
<b>Weight (net/gross)</b>	4.5kg
<b>Mounting</b>	DIN Rail mount included (Wall mount optional)
<b>Construction</b>	Aluminum and metal chassis with fanless design
<b>Battery</b>	Easily replaceable RTC battery
<b>Dynamic Display Module (DDM)</b>	0.96" LCM works with AIC to display system status

### Storage

<b>Internal Drive Bay</b>	Three internal SATA ports for 2.5" SSD
<b>RAID Mode</b>	RAID 0/1/5

### Other

<b>USB 2.0 Dongle</b>	Internal 1x USB 2.0 for dongle security key
<b>Antenna</b>	Four Antenna openings
<b>LED</b>	Power status, SSD status, and I/O status

### Environment

<b>Operating Temperature</b>	Standard: -20°C - +50°C (-47°F - +122°F), supports 35W TDP CPU Extended temperature: -25°C - +70°C (-13°F - +158°F)
<b>Storage Temperature</b>	-40°C - +85°C (-40°F - +185°F)
<b>Relative Humidity</b>	95% @ +40°C (+104°F), non-condensing
<b>Vibration During Operation</b>	5Gms with SSD (IEC60068-2-64: random 5-500Hz)
<b>Shock During Operation</b>	50Gms with SSD (IEC60068-2-27: Half Sine, 11ms duration)

### Certifications

<b>EMC</b>	CE/FCC Class A
<b>Safety Certification(s)</b>	CB

### OS Support

<b>Windows</b>	Windows 10 IoT 64-bit
<b>Linux</b>	Linux

### Mounting Kits

<b>WBK-AIH</b>	Wall mount bracket x 2 with Six (6) M3x6 screws
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### TPM

	Infineon OPTIGA™ TPM SLB 9665 TPM 2.0
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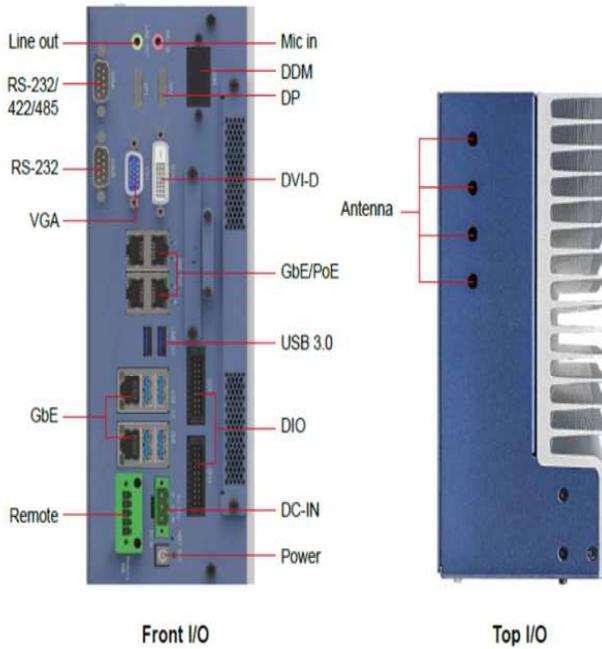
### Antenna Kits

<b>20140-000031-A.0</b>	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)
<b>2014-000022-A.0</b>	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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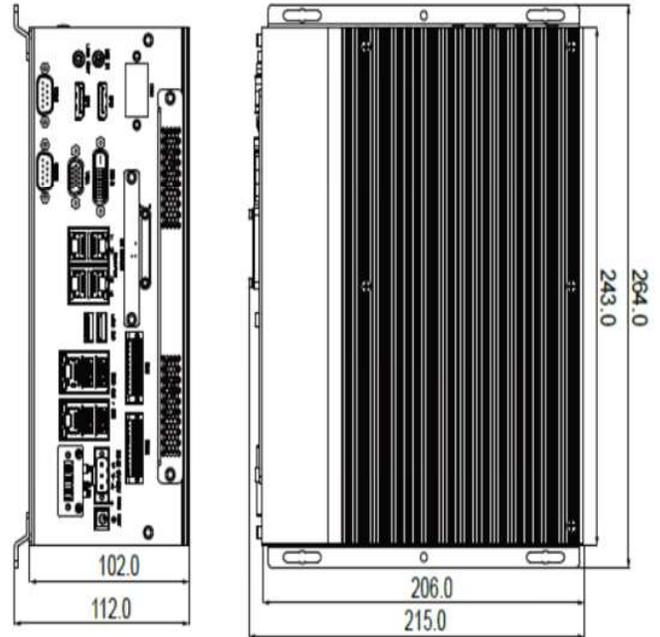
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## I/O Interface



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

## Ordering Information

### Part Number

**AIML6-6100-8G-2.5S128G-P209B12** Intel® 7th Gen Kaby Lake S (KBL-S) platform, LGA 1151 Socketed i5-7500 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

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