# 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







Wi-Fi DDM Multi-LAN Multi-USB RS-232/422/485 4K support







9-36V

Multi Display Wide Rang Capability DC Input



Control



16 Levels (0-75s)



### **Specifications**

#### System

7<sup>th</sup> Gen Intel⊚ Core™ S (formerly Kaby Lake) LGA 1151 CPU Core™ CPU i5-7500T (4 cores/4 threads, 2.7GHz/3.3GHz, 6MB cache, 35W TDP Intel® C236 Chipset Chipset Two DDR4 - 2133/2400 SO-DIMM Max. 64 GB Memory Graphics Intel® D Graphics 630 BIOS AMI 128Mbit SPI BIOS

Al for system monitoring and predictive analysis Al Controller (AIC)

Runtime: 10 - 65535 seconds Watchdog Timer Powerup: 120-65535 seconds

Power 9 - 36VDC Input Surge Protection

Reverse-Voltage, Over-Voltage, Under-Voltage, and Over-Current One ATX power on/off switch, 5-pin terminal block including 3-pin **Power in Protection** Remote Ignition remote control & 2-pin ignition signals (pitch 3.81mm)

AT/ATX (BIOS setting)

Power Mode

#### External I/O

Ethernet

Audio

Two DP / 4096x2304@60Hz One DVI-D / 1920x1200@60Hz Video Ports / Resolution One VGA / 1920x1200@60Hz Two DP + one DVI-D

Two DP + one VGA Video Port Combination

Two DP + one DVI-D + one VGA Wake-on-LAN and PXE i219 supports iAMT 11.0

Six RJ45 GbE (1x Intel® i219+5x Intel® i210)

32-bit programmable DIO

Six USB 3.0 ports via native XHCl controller (0.9A each port) One RS-232/422/485 (auto flow control) and one RS-232 port USB 3.0 / 2.0 COM Wi-Fi/ Cellular Communications Supports Wi-Fi/LTE modules via three Mini PCIe interfaces

ALC892HD audio codec, Mic-in/Line-out

Three SIM Push-Push sockets-SIM supports 2G SIM and USIM Socket support

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") 4.5kg DIN Rail mount included (Wall mount optional) Weight (net/gross) Mounting Construction Aluminum and metal chassis with fanless design Battery Easily replaceable RTC battery Dynamic Display Module 0.96" LCM works with AIC to display system status

#### (DDM) 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 Four Antenna openings Antenna Power status, SSD status, and I/O status

#### Environment

Standard: -20°C - +50°C (-47°F - +122°F), supports 35W TDP CPU **Operating Temperature** Extended temperature: -25°C - +70°C (-13°F - +158°F) -40°C - +85°C (-40°F - +185°F) 95% @ +40°C (+104°F), non-condensing Storage Temperature Relative Humidity

Vibration During Operation 5Gms with SSD (IEC60068-2-64: random 5-500Hz) 50Gms with SSD (IEC60068-2-27; Half Sine, 11ms duration) **Shock During Operation** 

#### Certifications

CE/FCC Class A Safety Certification(s)

**OS Support** Windows

Windows 10 IoT 64-bit

#### Optional Accessories

#### Wireless Module

Bointec DPE109A, WLAN 802.11abgn/AC2T2R with BT4.2 mini-PCle Wi-Fi Module 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 3.81 mm Female Terminal Block Plug for remote One 2x10-Pin, pitch 2.54 mm Female Terminal Block Plug for DIO TBP3-D20

#### Mounting Kits

WBK-AIH Wall mount bracket x 2 with Six (6) M3x6 screws Infineon OPTIGA™ TPM SLB 9665 TPM 2.0

Wi-Fi, one mini-PCle half to full size adapter bracket, two antennas

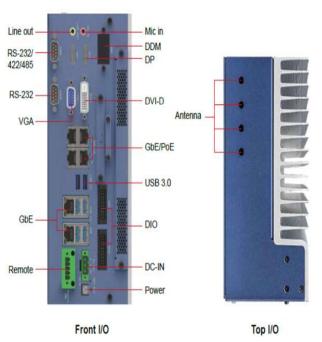
### **Antenna Kits**

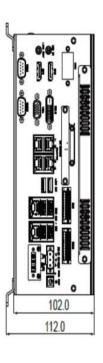
supporting IPX/MHF to SMA\_JR 300 MM, WITH TWO 2.4G RP SMA 20140-000031-A.0 Cellular, two antennas supporting IPX/MHF (Female) to SMA ST Jack (Male), 300 mm, two LTE 704-960/1710-2690MHz SMA ST 2014-000022-A.0 Plug 2(dB) 50 Ω 161 mm

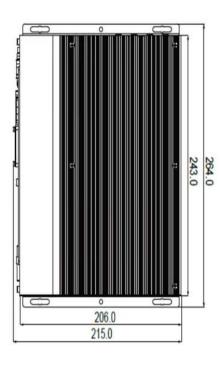
# Eagle Eyes - AIHD

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

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® 7h Gen Kaby Lake S (KBL-S) platform, LGA 1151 Socketed i5-7500 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 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