Eagle Eyes-AIHV-W1 PRODUCT BROCHURE



6th/7th gen Intel® platform (formerly Skylake/Kaby Lake), Xeon® E3/CoreTM S i7, i5, i3, Pentium® and Celeron® processor

Part number: AIHV-W1

Features

- 6th/7th gen Intel platform (formerly Skylake/Kaby Lake), Xeon E3/Core S i7, i5, i3, Pentium and Celeron processor
- Supports LGA1151 socket desktop processor up to 35W
- Intelligent eKit with AI function to monitor system health via 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:
  - One side bezel access and easy cable management
  - Remote on/off power switch with LED
  - Easily replaceable RTC battery holder
  - 3x SIM push-push slots

System

CPU	6th/7th gen Intel® Xeon® E3/CoreTM S (formerly Skylake/Kaby Lake)
	LGA1151 socket type CPU (supports TDP up to 35W)
Chipset	Intel® C236 Chipset
Memory	2x DDR4 SO-DIMM Max. 64GB
	(Skylake: DDR4-2133; Kaby Lake: DDR4-2400)
Graphics	Xeon®: HD Graphics P530 (Skylake)/P630 (Kaby Lake)
	CoreTM I Series: HD Graphics 530 (Skylake)/630 (Kaby Lake)

* All product specifications are subject to change without notice

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Pentium®/Celeron®: HD Graphics 510 (Skylake)/610 (Kaby Lake)	
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
TPM (optional)	SLB9665 (TPM 2.0) / SLB9635 (TPM 1.2)

Power

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

Mechanical

Dimensions (WxDxH)	260(W) x 206(D) x 77.42(H) mm (10.24" x 8.11" x 3.05")
Weight (net/gross)	3.7kg
Mounting	Foot stand; wall mount bracket (optional)
Construction	Aluminum and metal chassis with fanless design
Battery	Easily replaceable RTC battery holder
Dynamic Display Module (DDM)	0.96 inch LCM work with AIC to display system status

External IO

Display Ports / Resolution	2x DP/4096x2304@60Hz
	1x DVI-D/1920x1200@60Hz
	1x VGA/1920x1200@60Hz
Triple Display Ports Combinations	2x DP + 1x DVI-D
	2x DP + 1x VGA
	1x DP + 1x DVI-D + 1x VGA
Ethernet	2x RJ45 GbE (Intel® i219 + Intel® i210) / Wake-on-LAN and PXE/i219 supports iAMT 11.0
PoE	4x M12 GbE PoE+ (Intel® i210) 802.3at support up to 30W
USB 3.0/2.0	6x USB 3.0 ports via native XHCI controller (0.9A each port)
COM	2x RS-232/422/485 (auto flow control), 4x RS-232 port
Digital I/O	16-bit programmable DIO (AIHV-W1))
	8-bit isolated DI & 8-bit isolated DO, Sink/Source Mode, 5~48V, 100mA
	(AIHV-W1-i)
Audio	ALC892 HD audio codec, Mic in, Line out

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SIM	3x SIM push-push slots

Storage

Internal Drive Bay	3x internal SATA port for 2.5” HDD/SSD
mSATA	3x full length mSATA (muxed with Mini-PCIe)
Removable Drive Bay	1x swappable 2.5" HDD/SSD
RAID Mode	RAID 0/1/5

Expansion Slot

Mini-PCIe	3x full length Mini-PCIe (muxed with mSATA, auto detection)
IOM1(optional)	NA

Other

USB 2.0 Dongle	Internal 1x USB 2.0 for dongle security key
Antenna	4x antenna openings
LED	Power status, HDD status, IO status

Environment

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

Certification

EMC	CE/FCC Class A
Safety Certifications	CB

OS Support

Windows	Windows 7 32-bit/64-bit (Skylake only)
	Windows 8.1 32-bit/64-bit (Skylake only)
	Windows Embedded Standard 7(Skylake only)
	Windows Embedded 8 Standard (Skylake only)
	Windows 10 64-bit
	Windows 10 IoT
Linux	Linux

I/O Comparison Chart

Model Name	DP	DVI-D	VGA	GbE (RJ45)	GbE/PoE(M12)	DIO

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AIHV-W1	2	1	1	2	4	16-bit DIO
AIHV-W1-i						8-bit isolated DI & 8-bit isolated DO

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1	Eagle Eyes Embedded Box PC AIHV-W1 x 1
2	Rubber foot x4 with M3x6 screws x6

Item No.

Packing List

WBK-AIH	Wall mount bracket x2 with M3x6 screws x6

Mounting Kit

CBL-S01	SATA (Data + Power) cable x1
TBP5-S03	3-Pin, pitch5.0mm Female Terminal Block Plug for DC input x1
TBP-S05	5-Pin, pitch 3.81mm Female Terminal Block Plug for remote connector x1
TBP3-D20	2x10-Pin, pitch2.54mm Female Terminal Block Plug for DIO connector x1

Cable & Connector

Mini-PCIe wireless module for 3G/4G LTE/Wi-Fi/BT/NB-IoT/GPS/BDS

Wireless Module

SSD	mSATA SSD:16GB/32GB/64GB/128GB/256GB/512GB/1TB
	2.5 inch SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB
	2.5 inch HDD: 500GB/1TB/1.5TB/2TB

SO-DIMM Memory - DDR4-2133/2400 2GB/4GB/8GB/16GB/32GB

PCBL-B12	YP12-YC12:category B type plug, TW/JP/US/CA/TH/PH/Central America
PCBL-D03	YP03-YC12:category D type plug, CN
PCBL-D35	YP35-YC12: category D type plug, AU/NZ
PCBL-G22	YP22-YC12:category G type plug, DE
PCBL-I61	YP61-YC12:category I type plug, UK/HK/MO/SG/MY

AC Power Cord - H05VV-F 3G 0.75mm2, 1.8m, 250V, 10A

ADT-24V60-T3A
ADT-24V90-T3A
ADT-24V120-T3A
ADT-24V160-T3A
ADT-24V220-T3A
ADT-24V280-T3A

AC-DC Power Adapter - AC-DC power adapter with pitch 5.0mm 3-pin terminal block plug

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Other Accessories

iDIO-8I8O	8-bit isolated DI & 8-bit isolated DO module

Isolated Module

Optional Accessories

6th Gen Skylake	
E3-1268Lv5	Xeon® E3-1268L v5 (4 cores/8 threads, 2.4 GHz/3.4 GHz, 8MB cache, 35W
i7-6700TE	CoreTM i7-6700TE (4 cores/8 threads, 2.4 GHz/3.4 GHz, 8MB cache, 35W T
i5-6500TE	CoreTM i5-6500TE (4 cores/4 threads, 2.3 GHz/3.3 GHz, 6MB cache, 35 W T
i3-6100TE	CoreTM i3-6100TE (2 cores/4 threads, 2.7 GHz, 4MB cache, 35 W TDP)
G4400TE	Pentium® G4400TE (2 cores/2 threads, 2.4 GHz, 3MB cache, 35 W TDP)
G3900TE	Celeron® G3900TE (2 cores/2 threads, 2.3 GHz, 2MB cache, 35 W TDP)
7th Gen Kaby Lake	
i7-7700T	CoreTM i7-7700T (4 cores/8 threads, 2.9 GHz/3.8 GHz, 8MB cache, 35W TD
i5-7500T	CoreTM i5-7500T (4 cores/4 threads, 2.7 GHz/3.3 GHz, 6MB cache, 35W TD
i3-7101TE	CoreTM i3-7101TE (2 cores/4 threads, 3.4 GHz, 3MB cache, 35W TDP)

CPU (Optional)

Model Name	
AIHV-W1	Barebone System
AIHV-W1-i	Barebone System

Ordering Information:

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