

Eagle Eyes-AIM13

13th Generation Intel® Core™ P Series Processor Fanless Box Computer, 2x~4x RJ45 2.5GbE/PoE



Features

- 13th gen Intel® platform (formerly Raptor Lake), Core™ P series processor
- Intelligent eKit with AI function to monitor system
- Wi-Fi and wireless communication: LTE/5G, WLAN, GPS, GSM/GPRS, and Bluetooth
- Special Power Design:
 - Wide voltage 9~36V DC input
 - RVP/OVP/UVI/OCF support
 - Surge protection: 80V/1ms
 - Power ignition control
- Easy Expansion & Installation:
 - Remote on/off power switch with LED
 - 1x SIM Push-Push sockets
 - 3x M.2 interfaces

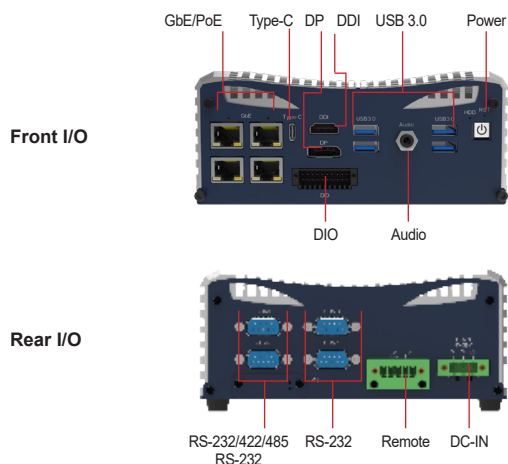


Specifications

System	
13th Gen Intel® Core™ (formerly Raptor Lake P-Series)	Intel® Core™ i7-1370PRE (6 P-cores 1.9GHz up to 4.8GHz, 8 E-cores 1.2GHz up to 3.7GHz, 24MB cache, 28W) Intel® Core™ i5-1350PRE (4 P-cores 1.8GHz up to 4.6GHz, 8 E-cores 1.3GHz up to 3.4GHz, 12MB cache, 28W) Intel® Core™ i3-1320PRE (4 P-cores 1.7GHz up to 4.5GHz, 4 E-cores 1.2GHz up to 3.3GHz, 12MB cache, 28W) Intel® Core™ i7-1365UE (2 P-cores 1.7GHz up to 4.9GHz, 8 E-cores 1.2GHz up to 3.7GHz, 12MB cache, 15W) Intel® Core™ i5-1335UE (2 P-cores 1.3GHz up to 4.5GHz, 8 E-cores 1.1GHz up to 3.3GHz, 12MB cache, 15W) Intel® Core™ i3-1315UE (2 P-cores 1.2GHz up to 4.5GHz, 4 E-cores 0.9GHz up to 3.3GHz, 10MB cache, 15W)
Memory	1x SO-DIMM DDR5 4800MT/s (64GB Max.) support ECC(By CPU)
Graphics	Intel® Iris® Xe Graphics
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	Infineon OPTIGA™ SLB9665 (TPM 2.0)
Power	
DC Input	9~36VDC
Surge Protection	80V/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)	161(W) x 155(D) x 68.1(H) mm (6.34" x 6.10" x 2.68")
Weight (net/gross)	1.7kg
Mounting	Wall mount bracket, foot stand
Construction	Aluminum and metal chassis with fanless design
External IO	
Display Ports / Resolution	1x DP & 1x DDI support 4096x2304@60Hz 1x Type-C/4096x2304@120Hz
Triple Display Ports	1x DP + 1x DDI + 1x Type-C
Ethernet	4x RJ45 2.5GbE (Intel® i226IT 10/100/1000/2500Mbps) Wake-on-LAN and PXE /iAMT
PoE (optional)	4x RJ45 2.5GbE PoE+ 802.3at support up to 30W
USB 3.0/2.0	4x USB 3.2 Gen1 ports via native XHCI controller (0.9A each port)
COM	2x RS-232/422/485 (auto flow control), 2x RS-232 port
Digital I/O	16-bit programmable DIO 8-bit isolated DI & 8-bit isolated DO, sink/source mode, 5~48V, 100mA
Audio	ALC897 HD audio codec, Mic in, Line out
SIM and USIM Socket	1x SIM Push-Push sockets, USIM supports 4G / 5G
Wi-Fi/Celluar	Supports Wi-Fi(via 1x M.2 E-Key), LTE/5G modules(via 1x M.2 B-Key)

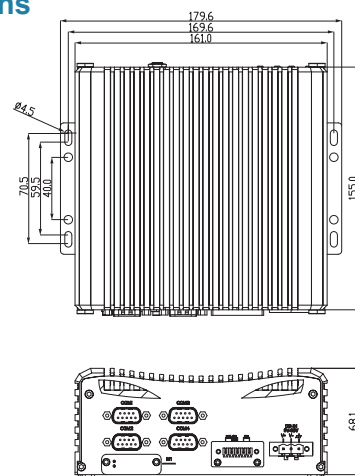
Storage	
Internal Drive Bay	1x Internal SATA port for 2.5" HDD/SSD
M.2	1x M.2 M-Key(2242) NVMe
Expansion Slot	
M.2	1x M.2 B-Key(3042/3052) 1x M.2 E-Key(2230)
Other	
USB 2.0 Dongle	Internal 1x USB 2.0 for dongle security key (option)
Antenna	4x antenna openings
LED	Power status, HDD status, IO status
Environment	
Operating Temperature	Standard: -20°C to 50°C (-4°F~122°F), supports 15W TDP CPU
Storage Temperature	-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 10 64Bit Windows 10 IoT 64Bit Windows 11 64Bit Windows 11 IoT 64Bit
Linux	Linux

I/O Interfaces



Dimensions

Units: mm



Ordering Information

Model Name	Article Number (A/N)
AIM13(15W)	
AIM13 1365UE Barebone	20010-000585
AIM13 1335UE Barebone	20010-000586
AIM13 1315UE Barebone	20010-000630
AIM13i 1365UE Barebone	20010-000631
AIM13i 1335UE Barebone	20010-000632
AIM13i 1315UE Barebone	20010-000633
AIM13P 1365UE Barebone	20010-000634
AIM13P 1335UE Barebone	20010-000635
AIM13P 1315UE Barebone	20010-000636
AIM13Pi 1365UE Barebone	20010-000637
AIM13Pi 1335UE Barebone	20010-000638
AIM13Pi 1315UE Barebone	20010-000639
AIM13(28W)	
AIM13 1370PRE Barebone	20010-000646
AIM13 1350PRE Barebone	20010-000647
AIM13 1320PRE Barebone	20010-000648
AIM13i 1370PRE Barebone	20010-000649
AIM13i 1350PRE Barebone	20010-000650
AIM13i 1320PRE Barebone	20010-000651
AIM13P 1370PRE Barebone	20010-000652
AIM13P 1350PRE Barebone	20010-000653
AIM13P 1320PRE Barebone	20010-000654
AIM13Pi 1370PRE Barebone	20010-000655
AIM13Pi 1350PRE Barebone	20010-000656
AIM13Pi 1320PRE Barebone	20010-000657

Optional Accessories

Isolated Module	8-bit isolated DI & 8-bit isolated DO module
iDIO-8I8O	
AC-DC Power Adapter	AC-DC power adapter with pitch 5.0mm 3-pin terminal block plug
ADT-24V90-T3A	24V/90W
ADT-24V120-T3A	24V/120W
ADT-24V160-T3A	24V/160W
ADT-24V220-T3A	24V/220W
ADT-24V280-T3A	24V/280W
AC Power Cord	H05VV-F 3G 0.75mm ² , 1.8m, 250V, 10A
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
SO-DIMM Memory	DDR5 4800/5600 8GB/16GB/32GB/64GB
SSD	M.2 NVME SSD: 16GB/32GB/64GB/128GB/256GB/512GB/2TB 2.5 inch SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB 2.5 inch HDD: 500GB/1TB/1.5TB/2TB
Wireless Module	M.2 B-Key/E-Key wireless module for 4G LTE/5G/Wi-Fi/BT/NB-IoT/GPS/BDS
Cable & Connector	
CBL-S01	1x SATA (Data + Power) cable
TBP5-S03	1x 3-Pin, pitch5.0mm Female Terminal Block Plug for DC input
TBP3-S05	1x 5-Pin, pitch3.81mm Female Terminal Block Plug for remote connector
TBP3-D20	1x 2x10-Pin, pitch2.54mm Female Terminal Block Plug for DIO connector
Mounting Kit	
WBK-AIM	2x Wall mount bracket with 4x M2.5x5 screws

Packing List

Item No.	
1	1x Eagle Eyes Embedded Box PC AIM13
2	4x Rubber foot with 4x M2.5x5 screws