

AI Workstation MegaEdge

PCIe Series AIP-FR68-A1AXE



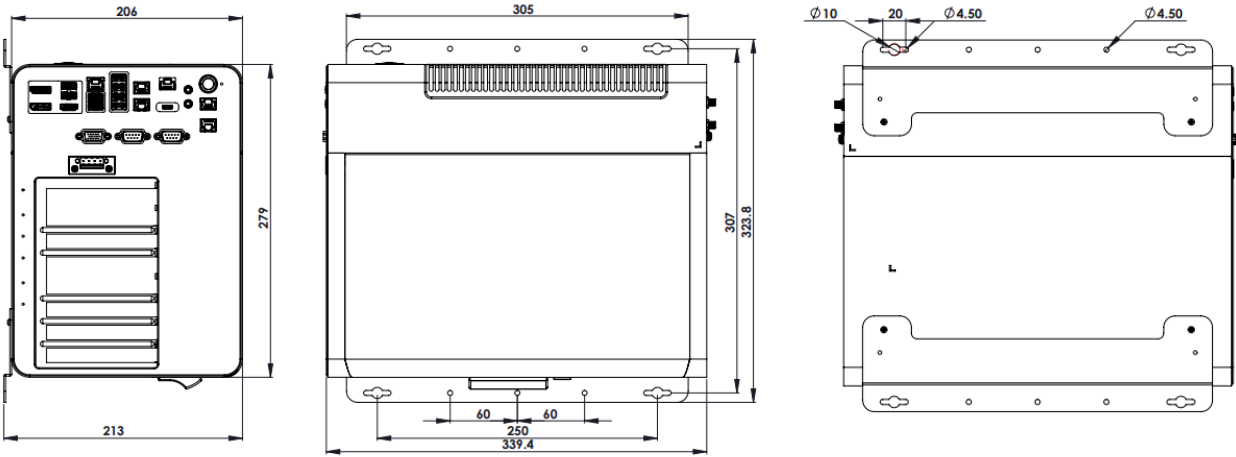
Features

- Equipped with Intel 13th Core I 65W CPU Provide outstanding video encoding / decoding performance.
- Feature 4x Axelera State-of-the-art PCIe AI Accelerator cards, boosting extreme Inference performance up to 800TOPS(INT8).
- Pre-installed VOYAGER SDK for Large Model Zoo supporting, such as Image classification, Object detection, Pose estimation.
- Dual PSE support IP Camera for real time video streaming.
- Support out-of-band (OOB) management tool for remote maintenance of edge AI system.

Specifications

Model Number	AIP-FR68-A1AXE
CPU	12/13/14 th Gen. Intel® Core™ i9/i7/i5 Processor up to 65W
Graphics	Intel® UHD Graphics 770
Chipset	Intel® R680E Chipset
System Memory	4 x DDR5 288-pin U-DIMM up to 192G
Storage	4 x 2.5" SATAIII SSD (RAID 0/1/5/10) 1 x M.2 M-Key Slot, Support PCIe Gen4 x4 for NVME/SATA, Size 2280 1 x M.2 M-Key Slot, Support PCIe Gen4 x4 for NVME, Size 2280 (NVMe Gen 4 available to support dual M.2 AI accelerator)
USB	8 x USB 3.2 Gen2 x 1 (Type-A) 1 x USB 3.2 Gen2 x 2 (Type-C)
LAN	3 x 2.5G RJ-45 Ethernet (I226-LM, LAN2/LAN3 optional with 802.3at PSE up to 30W/ch) 1 x 10G BASE-T RJ-45 (Marvell AQC113)
Serial port	1 x RS-485 (COM3, RJ45) 2 x RS-232/422/485 (COM1/2, DB9, Default RS-232)
Display	1 x HDMI 2.0 2 x DP++ 1.4 (VGA optional / GPIO either one)
Expansion Slots	1x M.2 E-Key 2230 (USB2.0/PCIe) 1x M.2 B-Key 3052(USB2.0/USB3.2) 1x PCIe Gen4 x16 or Gen4 x8 (PCIe x16 slot) 1x PCIe Gen4 x8 (PCIe x16 slot) 1x PCIe Gen3 x4 (PCIe x4 slot) 1x PCIe Gen3 x4 (PCIe x16 slot) 1x PCIe Gen3 x1 (PCIe x1 slot)
SIM Slot	1 x Nano SIM slot
GPIO	8 x bits GPIO
Audio	1 x Line-out, 1 x Mic-in
Button	1 x Power button 1 x AI button
Indicator	PCIe Slot-1&2 (POWER/FAN/TEMP)
MISC. Function	OOB (out of band), Built-in Innodisk – InnoAgent
Power Consumption	Full loading : up to 600 Watts
Power Input /Connector	DC-in 24~48V (Power input up to 600W) , 4-pin Terminal Block
Dimension (Wx Dx H)	340 x 215 x 279 mm
GPU Card support Dimension (Hx Wx D)	Based on NVFF5.0 112 x 269 x 39 mm (for Dual slots card) 112 x 244 x 19 mm (for Single Slot card)
Mounting	Wall mount / Desk mount
Net Weight	11 kg
Vibration	1Grms ,IEC60068-2-64,Random,5 ~ 500 Hz ,1Hr / Axis (operation, w/o PCIe Card)
Shock	10G, IEC 60068-2-27, Half Sine, 11 ms Duration (operation, w/o PCIe Card)
Temperature	Operating Temp.: 0°C ~ +50°C (32°F ~ 122°F)(w/o GPU) Operating Temp.: 0°C ~ +50°C (32°F ~ 122°F)(w/ 165W Passive GPU) Operating Temp.: 0°C ~ +40°C (32°F ~ 104°F)(w/ 300W Active GPU) Storage Temp.: -40°C ~ +85°C (- 40°F ~ 185°F)
Humidity	95% @ 40°C Related Humidity, Non-condensing
OS Support	Windows 10 IOT LTSC / Windows 11 / Ubuntu 22.04
Security	TPM 2.0
Certification	CE / FCC Class A / UKCA / LVD / RoHS

System & Mounting Dimension



I/O Layout



Ordering Information

Model name	Part No.	Description
AIP-FR68-A1AXE7	TBD	I7-13700E, 64G RAM, 1T 2.5" SSD, 4X CARD AXELERA, HEP-600 power supply, AC/DC power cable, EU power cord
AIP-FR68-A1AXE5	TBD	I5-13500E, 32G RAM, 1T 2.5" SSD, 4X CARD AXELERA, HEP-600 power supply, AC/DC power cable, EU power cord

