



MegaEdge
AIP-SQ37 Series

MegaEdge
AIP-SQ67 Series

Real-time AI Inference Ensures Accurate 3D Virtual Fence Solution

As one of the core roles in real-time AI inference solutions, Aetina MegaEdge AIP-SQ67 and AIP-SQ37 Series feature high maintainability, flexibility, and stability. For maintainability, AIP-SQ67 and AIP-SQ37 Series are equipped with two removable 2.5" SSD drive trays, allowing users to swap SSD quickly. Besides, the flexibility means that both series support a variety of CPUs, memory, storage, GPUs, and rich I/O interfaces. Above all, AIP-SQ67 and AIP-SQ37 Series are comprised of solid components with long-term stability, targeting a broad range of applications, including smart factory, retail, healthcare, security, banking, and greenhouse farming.

In factory, robotic arms have been commonly used to improve manufacturing efficiency; however, they might cause workplace injuries without careful management. When people break in the movement radius of a working robotic arm, they possibly get injured. To reduce the occurrence of accidents, 3D virtual fence solution is born this way. It mainly relies on AIP-SQ67 or AIP-SQ37 Series, several smart 3D sensors, and motion recognition algorithm. When human intrusion is detected by smart 3D sensors, AIP-SQ67 or AIP-SQ37 Series inferences those skeletons in real-time. Meanwhile, motion recognition algorithm ensures the recognition result preciseness, sending alarm signal or stop running the operation of robotic arms.



Maintainability



Flexibility



Stability

Specification



Model Number	AIP-SQ37-A1	AIP-SQ37-A2	AIP-SQ67A-A1	AIP-SQ67B-A1
CPU	Intel® 9th Core i5	Intel® 9th Core i7	Intel® 12th Core i5	Intel® 12th Core i7
Chipset	Intel® Q370		Intel® Q670E	
GPU (Optional)	Interface: MXM 3.1, PCIe Gen3 x16 support, Form Factor: Type A/B/B+		Interface: MXM 3.1, PCIe Gen4 x16 support, Form Factor: Type A/B/B+	
Memory	Support 2x DDR4 SO-DIMM, Dual Channel DDR4 2666/2400 MHz		Support 2x DDR5 SO-DIMM, Dual Channel DDR5 4800MHz	
Storage	Support 2x 2.5" SATA SSD		Support 2x 2.5" SATA SSD	
Front I/O	2x Display Port Ports (1 for CPU, 1 for GPU) 2x USB2.0 Gen2 6x USB3.1 Gen2 1x Audio jacks, support Line out/Mic 1x DCIN Jack (12 ~19V) 1x DIO(3x DI/3xDO) 2x GbE RJ45 LAN 2x COM Ports (RS-232)		3x USB3.2 Gen2 Dual Connector 1 x USB 3.2 Gen2 x2 (20G) USB Type C Connector 5 x RJ45 LAN Connector(1+4),2.5G bps 4 x RS-232/RS-422/RS-485 (COM1~4) 1x DIO	
Rear I/O	-		5x DP-4xDisplay Port (DP++, From MXM Port A/B/C/D), 1x Display Port(DP++, From CPU) 2x Audio Jacks, Support Line Out/Mic 2x CAN Bus-Isolation 2.0B 2x USB2.0 Gen2 Connector 1x OOB	
Expansion	1x MXM Slot (Type B plus) 1x Mini PCIE Full slot, support PCIe x1 + USB 2.0 interface 1x M.2 B key slot, support PCIe x2 + USB 3.0(Colay PCIE ,Default PCIE) interface & 2280		1 x MXM Slot (Type B plus) 1 x M.2 M Key Slot, Support PCIe Gen4x4+ SATA Interface for NVME, Size 2280 1 x M.2 M Key Slot, Support PCIe Gen4x4+ SATA Interface for NVME, Size 2280 (Support InnoAGE)	
Power Consumption	Turbo-on 360W (w/o GPU)		Turbo-on 400W (w/o GPU)	
Power Input /Connector	DC-in 19V		DC-in 24V / 4-pin Terminal Block	
Dimension (Wx Dx H)	264.3 x 158.2 x 210mm		270.0 x 155.0 x 252.0mm (10.62" x 6.10" x 9.92")	
Mounting	Deskmount ∙ Wallmount		Deskmount	
Net Weight	4.0 kg		5.5 kg (12.13 lb)	
Vibration	1 Grms ,IEC60068-2-64,Random,5 ~ 500 Hz ,1Hr / Axis (With MXM Card)		2 Grms ,IEC60068-2-64,Random,5 ~ 500 Hz ,1Hr / Axis (With MXM Card)	
Shock	2G, IEC 60068-2-27, Half Sine, 11 ms Duration(With MXM Card)		5G, IEC 60068-2-27, Half Sine, 11 ms Duration(With MXM Card)	
Temperature	0°C ~ +50°C (With Expansion Kit)		Operating Temp. : 0°C ~ + 50°C (With Expansion Kit)(32°F ~ 122°F) / Storage Temp. : -40°C ~ + 85°C (- 40°F ~185°F)	
Humidity	95% @ 40°C Related Humidity, Non-condensing		95% @ 40°C Related Humidity, Non-condensing	
OS Support	Ubuntu 22.04 ∙ Windows 10		Ubuntu 22.04 ∙ Windows 10	
Certification	CE/FCC		CE/FCC/BSMI/LVD	

* Product Specifications are subject to change without prior notice