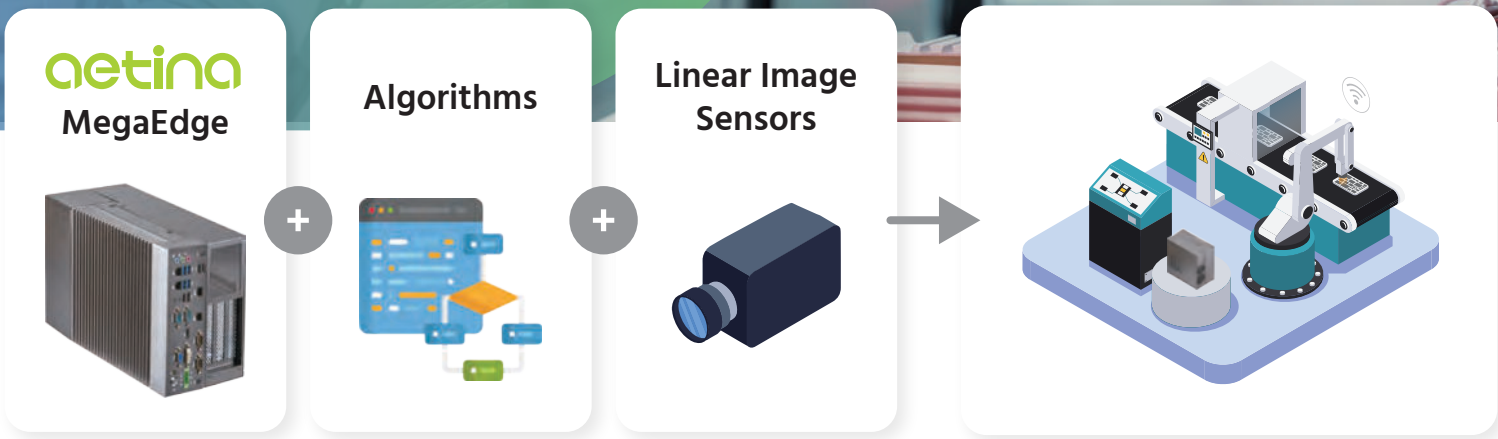


Accelerate AI-enabled AOI Solution With Real-time Inference



Aetina MegaEdge AIP-FH31-A Series is a real-time AI inference platform with expansion kit of discrete graphics, providing interface diversity such as 1x PCIe1 and 1x PCIe16 for AI accelerators. AIP-FH31-A Series combines solid components for long-term, stable operation. It brings AI to the edge in fast response time that is ideal for smart city, smart factory, smart retail, and so on.

AIP-FH31-A Series has already been deployed for automated optical inspection (AOI). For manufacturers engage in printed matter, it's uncertain to ensure product quality via manual visual inspection. To solve the problem, Aetina collaborated with partners to build printed matter defect detection inspection solution. The solution mainly consists of Aetina's AIP-FH31-A Series, partners' vision positioning algorithm and linear image sensors. As linear image sensors read the image data on line, Aetina's AIP-FH31-A Series helps to immediately inference the data. Meanwhile, partner's vision positioning algorithm used in deep learning responds to the detection results, making the automatic test equipment(ATE) plot defects instantly. By deploying the solution, manufacturers easily attain advanced AOI with high recognition accuracy and efficiency.

Computability

Stability

Flexibility

MegaEdge Specifications



AIP-FH31-A Series



AIP-FQ47-B Series

Model Number		AIP-FH31-A1	AIP-FH31-A2	AIP-FQ47-B1	AIP-FQ47-B2
Processor	CPU	Intel® 8th/9th Gen Core™ i5 processor	Intel® 8th/9th Gen Core™ i7 processor	Intel® 10th Gen Core™ i5 processor	Intel® 10th Gen Core™ i7 processor
	Intel® coffee lake-S		Intel® coffee lake-S		
	Socket	LGA1151		LGA1151	
	TDP	65W		65W	
Motherboard	Chipset	Intel® H310 Express Chipset		Intel® Q470E Express Chipset	
Motherboard-Memory	Technology	Up To DDR4 2666 / 2400		Up To DDR4 3200	
	Max. Capacity	32GB		32GB	
	Socket	2x 260-pin DIMM		2x 260-pin DIMM	
Graphics	Controller	Intel® Integrated Graphics		Intel® Integrated Graphics	
Ethernet	Interface	10/100/1000 Mbps		10/100/1000 Mbps	
	Controller	4x GbE LAN		4x GbE LAN	
	Connector	4x RJ45		4x RJ45	
Storage	Max Data Transfer Rate	6Gb/s		6Gb/s	
	SATA III SSD	3x SATA 6 Gb/s port (Support 2.5" HDD/SSD)		4x SATA 6 Gb/s port (Support 2.5" HDD/SSD)	
	RAID	RAID 0 / RAID 1		RAID 0 / RAID 1	
Front I/O	VGA	1x VGA		1x VGA	
	DVI-D	1x DVI-D		1x DVI-D	
	Display Port	1x DP		1x DP	
	Ethernet	4x RJ45		4x RJ45	
	USB	4x USB3.2 Gen1, 4 x USB2.0		4x USB3.2, 6 x USB2.0	
	Audio	3x Audio Jacks (Line in, Line out & Mic in)		3x Audio Jacks (Line in, Line out & Mic in)	
	COM	2x COM (RS-232/422/485 and RI/5V/12V) 2 x COM (RS-232)		2x COM (RS-232/422/485 and RI/5V/12V) 2 x COM (RS-232)	
Antenna	2x External Antenna (optional)		2x External Antenna (optional)		
Power Requirement	Voltage	DC in +24V~36V (full Range)		DC in +24V~36V (full Range)	
Physical Characteristics	Operating Temperature	-20°C to 50°C (w/o GPU)		-20°C to 50°C	
	Humidity	0-90% (noncondensing)		0-90% (noncondensing)	
	Dimension	146(W)x224(H)x343(D) mm		166.3(W)x224(H)x368(D) mm	
	Net Weight	5.8kg		TBD	
Expansion Slot	M.2	1x M.2 E Key		1x M.2 E Key	
	miniPCle	1x Mini-PCle slot (PCIeX1 + USB2.0) with SIM Slot			
	PCle	1x PCle x1 (Gen3 x1) 1x PCle x16 (Gen3 x16)		1x PCle x4 (Gen3 x1) 1x PCle x16 (Gen3 x16)	

* Product Specifications are subject to change without prior notice