

AVS-53X Series

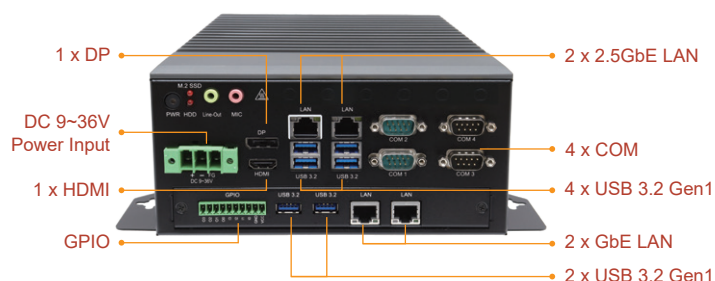
The Advanced Machine Vision Solutions with Supreme Imaging Performance

AVS series, the all-round machine vision solution is built with cutting-edge technology. It is specifically designed to cater to Machine Vision, Edge Computing, Machine Learning/Inference, Robotic Control, Factory Automation, and much more. Besides, It supports multiple I/Os to communicate between various edge peripherals and servers. With IIoT and AI, AVS series is the best solution for smart factory.

▼ AVS-530QL

Flexible I/O Interface

Model	AVS-530	AVS-530QL	AVS-532 AVS-534	AVS-532QL AVS-534QL
Riser	—	—	●	●
High Speed Expansion I/O	—	●	—	●



Removable
HDD Tray



Extensive GPU Card
Support 75~125W

Applications



Smart Factory



Fault Detection



High Speed
Expansion I/O

Riser

AVS-532:

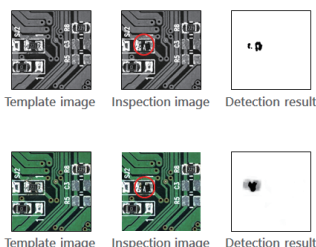
2 x PCIe slots

AVS-534:

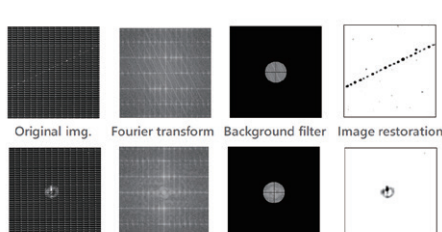
4 x PCIe slots

• DDR5 SO-DIMM Memory, up to 64GB

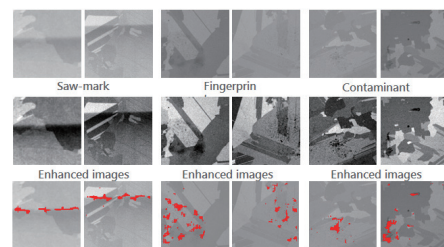
Defect Inspection for PCBA Electronic Parts



Defect Inspection for TFT-LCD



Defect Inspection for Solar Panels



Specifications

Model	AVS-530	AVS-530QL	AVS-532	AVS-532QL	AVS-534	AVS-534QL
System						
Processor	14th/13th/12th Gen. Intel Core i3/i5/i7/i9 Processors, up to 65W					
Chipset	Intel Q670E					
Memory (need to use a wide temp.)	2 x 262-pin DDR5 SO-DIMM Memory, up to 64GB					
TPM	TPM 2.0					
External I/O						
USB	4 x USB 3.2 Gen.1 Type-A					
Serial/Parallel	4 x RS-232/422/485 Selectable Default RS-232					
DP	1 x DP++ 1.4A, up to 7680 x 4320 @60Hz					
Audio	1 x Line-out 3.5mm Phone Jack 1 x Mic-in 3.5mm Phone Jack					
HDMI	1 x HDMI 2.0a, up to 4096 x 2160 @60Hz					
LAN	2 x 2.5GbE LAN RJ-45 (i226LM, LAN1 Support iAMT)					
Power	1 x 3-pin DC Power Input via Terminal Block					
Power Button						
Power Button	1 x Power Button with LED					
LED Indicators						
LED Indicators	1 x M.2 SSD / 1 x 2.5" SATA					
Storage Space						
Storage (need to use a wide temp.)	Default: 1 x M.2 M-Key, 2280 (SATA3, PCIe 4.0 x4) for SSD Option: 2 x 2.5" SATA3 HDD/SSD (Easy-swappable HDD tray), with RAID 0,1					
M.2 Expansion						
M.2	1 x M.2 E-Key, 2230 for Wi-Fi / Bluetooth 1 x M.2 B-Key, 3042/3052 for optional 4G/5G 1 x NANO SIM slot					
Expansion						
Expansion Slots	-	1 x PCIe x16 + 1 x PCIe x4		1 x PCIe x16 + 2 x PCIe x4 or 2 x PCIe x8 + 2 x PCIe x4		
		PCIe/PCI Board (include GPU card) Dimension: L ≤ 195mm, H < 45mm, W ≤ 120mm				
High Speed Expansion I/O (QL Model)	2 x USB 3.2 Gen.1 Type-A 2 x GbE LAN RJ-45 (i210AT/i211AT) 8 x Digital I/O Terminal Block 1x10-pin, 4 x SI, 4 x SO					
Others						
Others	Watchdog Timer (256 steps) 6 x SMA for Wi-Fi and 4G LTE/ 5G/ GPS Antennas					
Power Supply						
Power Input	DC 9~36V					
Mechanical						
Construction	Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis					
Mounting	Wall Mount (default) & Din Rail Back Side (optional)					
Dimension (mm)	222 x 217 x 95		222 x 217 x 151.1		222 x 217x 191.8	
Net Weight (kgs)	3.9 kg		4.5 kg		5.3 kg	
Environmental						
Operating Temperature	-20~60°C (for 35W CPU) / -20~50°C (for 65W CPU), ambient with air flow (with industrial storage)					
Storage Temperature	-40~85°C					
Storage Humidity	10 to 90%@ 40°C, Non-condensing					
Certificate	Meet CE / FCC Class A					
Operating System Support	Windows 10 IoT LTSC / Windows 11 IoT / Ubuntu 22.04 (Linux Kernel 5.15)					