

AVS-52X Series Provides a Flexible and Extensive I/O Support for Machine Vision Solutions



APLEX Technology Inc., a global industrial computer products solutions provider is pleased to introduce the new series of our fan-less machine vision box PC-AVS-52X series. This series includes AVS-520, AVS-520QL, AVS-522-EH1EQ1, AVS-522QL-EH1EQ1, AVS-524-EH1EQ2 and AVS-524QL-EH1EQ2, which is designed for the applications in industrial automation, smart control systems, machine vision inspection, machine learning and surveillance.

The performance and features of AVS-52X series

AVS-52X series is powered by 9th Gen. Intel Core i7/i5/i3 processor and is paired with up to 64GB of SO-DIMM memory. Besides, integrating with the graphic card, the series can provide top-end computing performance and graphic processing to support every functions that AI based machine vision needed.

AVS-52X series supports wide range power input DC9~36V and is able to operate under wide temperatures range from -20°C to 60°C. It is constructed with plating titanium gray aluminum heatsink and black steel chassis. It supports both wall mount and din rail mount (for option). Moreover, it also has multiple I/O interfaces, expansions and even removable drive-bays.



High flexibility and expansibility of I/O interfaces

This series basically supports 4 x USB 3.2, 2 x COM, 1 x VGA, 1 x HDMI and 2 x GbE LAN. As for the expansion slots, it all equipped with 1 x full size Mini-PCIe, 1 x M.2 key M or B 2280/2242, and PCIe x 4. Apart from that, there are more flexible expansion options for customers.

Some of the models in AVS-52X series includes the name of “QL”. It represents for high-speed extension I/Os which offers 2 x GbE LAN, 2 x USB 3.2 and 8 x GPIO terminal block. However, if you have any other I/O request, it can be customized as well. APLEX also provides riser card for supporting more I/O interfaces. The AVS-522 and AVS-524 series equipped with 1 x PCIe-16 Gen3. which can support graphics card. Besides, it also has 1 x PCIe-4 for AVS-522 series and 2 x PCIe-4 for AVS-524 series.

HS (High Speed) Expansion I/O	Riser	
<ul style="list-style-type: none"> 2 x GbE LAN RJ-45 2 x USB 3.2 Gen1 type A 8 x GPIO Terminal Block 1x10 pin with Isolation 	AVS-522(QL)	AVS-524(QL)
	<ul style="list-style-type: none"> 1 x PCIe-16 1 x PCIe-4 	<ul style="list-style-type: none"> 1 x PCIe-16 2 x PCIe-4

AVS-52X series supports Microsoft® Win10 IoT, Windows 11 and Linux Kernel 4.15. With all these benefits and the extensive operating system, AVS-52X series surely may fit your application demands. From edge peripherals to central system, APLEX provide comprehensive AI machine vision solutions.

Product Guide:

Model	AVS-520	AVS-520QL	AVS-522-EH1EQ1	AVS-522QL-EH1EQ1	AVS-524-EH1EQ2	AVS-522QL-EH1EQ2
Processor	9th Gen. Intel Core i7/i5/i3 Processor					
System Memory	2 x 260-pin DDR4 SO-DIMM memory, up to 64GB					
USB	4 x USB 3.2 Gen1 type A					
Serial/Parallel	1 x RS-232/422/485 DB-9 (COM1, default RS-232) 1 x RS-232 DB-9 (COM2)					
Graph	1 x VGA 1 x HDMI					
LAN	2 x GbE LAN RJ-45					
HDD	2 x 2.5" SATA3 HDD/SSD , Easy-swappable HDD tray					
On Board Expansion Bus	1 x full size Mini-PCIe slot 1 x M.2 key M or B,2280/2242:SMbus, SATA 6 Gb/sand PCIe x4 supporting NVMe					
High Speed Expansion I/O	—	●	—	●	—	●
Riser	—	—	●	●	●	●

