AVS-532/532QL

12th/13th/14th Gen. Intel Core i3/i5/i7/i9 Processor Machine Vision Application System





Features

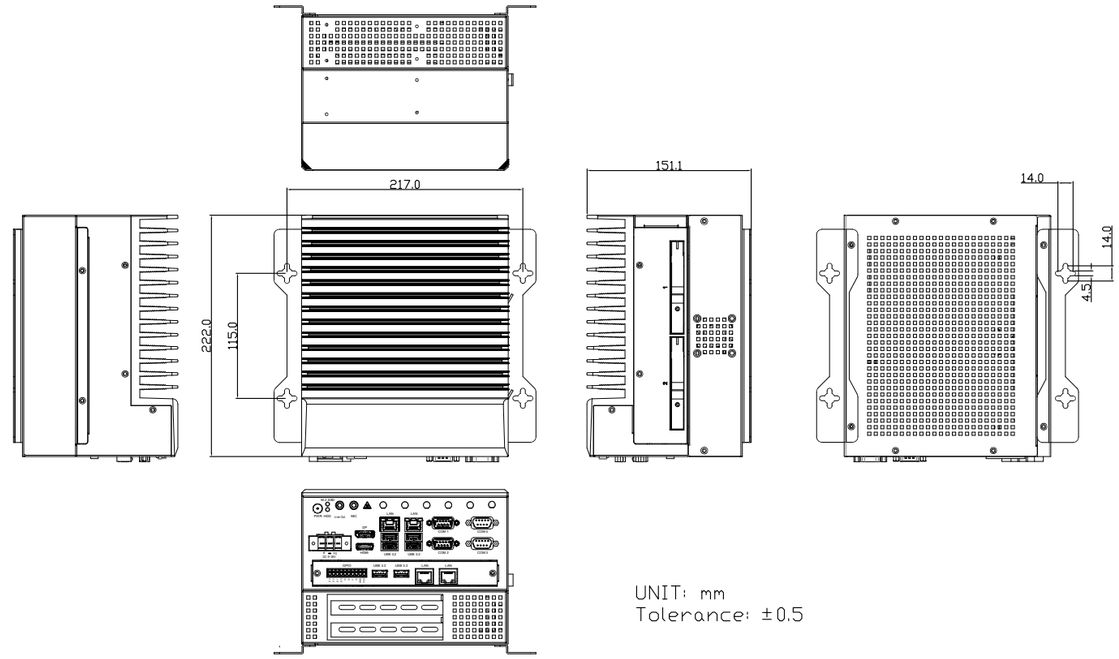
- Vertical System for Machine Vision
- 12th/13th/14th Gen. Intel Core i3/i5/i7/i9 Processors
- 2 x DDR5 4800MHz SO-DIMM, up to 64GB
- Toolless HDD Tray for easy data storage maintenance
- CPU(35W) Fan-less Design and Smart fan support for high-end CPU up to 65W (optional)
- Flexible expansion features through I/O module design
- DC 9~36V Wide Range Power Input

Specifications

System	
CPU	12th/13th/14th Gen. Intel Core i3/i5/i7/i9 Processors, up to 65W
System Chipset	Intel Q670E
Memory	2 x 262-pin DDR5 (4800MHz) SO-DIMM Memory, up to 64GB (32GB per slot) **Need to use a wide temperature*
TPM	TPM 2.0
BIOS	AMI
IO Port	
USB	4 x USB 3.2 Gen1 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
M.2 Expansion	
M.2	1 x M.2 E-key, 2230 for Wi-Fi / Bluetooth 1 x M.2 B-key, 3042/3052 (PCIe 3.0 x1, USB 3.2 Gen.1/ USB2.0) for optional 4G/5G module 1 x NANO SIM slot
Storage Space	
Storage	Default: 1 x M.2 M-key, 2280 (SATA3, PCIe x4 Gen.3) for SSD Option: 2 x 2.5" SATA3 HDD/SSD (Easy-swappable HDD tray), BIOS support RAID 0,1 **Need to use a wide temperature*
Expansion	
Expansion Slots	1 x PCIe x16 + 1 x PCIe x4 (FAN optional) Note: PCIe Board (include GPU card) Dimension: L ≦ 199mm, H < 45mm, W ≦ 120mm *Suggest GPU power input: 32V
Optional High Speed Expansion I/O	2 x USB 3.2 Gen1 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
35W CPU	
Power Input	DC 9~36V

Dimensions

AVS-532QL



UNIT: mm
Tolerance: ±0.5

Mechanical	
Construction	Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis
Mounting	Wall Mount (default) & DIN Rail Back Side (optional)
Dimensions	222 x 217 x 151.1 mm
Net Weight	4.5 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	CE/FCC Class A
Operating System Support	
Windows 10 IoT LTSC / Windows 11 IoT / Ubuntu 22.04 (Linux Kernel 5.15)	
Ordering Information	
AVS-532	Fanless Box PC, 12th/13th/14th Gen. Intel Core i3/i5/i7/i9, 2 x DDR5 SO-DIMM slots, 1 x M.2 2280 M-key slot, 2 x 2.5" SSD trays, 4 x COM, 2 x 2.5GbE LAN, 4 x USB 3.2, 1 x DP 1.4A, 1 x HDMI 2.0a, 1 x Line-out, 1 x Mic-in, 1x M.2 2230 E-Key, 1 x M.2 3042/3052 B-key, 1 x PCIe Gen.4 x16 + 1 x PCIe Gen.4 x4 with FAN, 9~36V DC power input w/o adaptor
AVS-532QL	Fanless Box PC, 12th/13th/14th Gen. Intel Core i3/i5/i7/i9, 2 x DDR5 SO-DIMM slots, 1 x M.2 2280 M-key slot, 2 x 2.5" SSD trays, 4 x COM, 2 x 2.5GbE LAN, 6 x USB 3.2, 1 x DP 1.4A, 1 x HDMI 2.0a, 1 x Line-out, 1 x Mic-in, 1x M.2 2230 E-Key, 1 x M.2 3042/3052 B-key, 2 x GbE LAN, 2 x USB 3.2 Gen.1, 1 x 8-bit DIO, 1 x PCIe Gen.4 x16 + 1 x PCIe Gen.4 x4 with FAN, 9~36V DC power input w/o adaptor

V 1.6

All specifications and photos are subject to change without notice.
All specifications and photos are subject to change without notice.
Machine Vision