

High-performance Box-PC AVS-532QL Intel® Core™ i3/i5/i7/i9 processors of the 12th, 13th and 14th generation



- For demanding to high-performance industrial applications
- HDMI 2.0a, DisplayPort 1.4a
- 9 V DC to 36 V DC
- Windows 10 IoT LTSC, Windows 11 IoT LTSC

<https://www.wachendorff-prozesstechnik.de/en/avs-532ql>

Description

The AVS-532QL series is based on Intel® Core™ i3/i5/i7/i9 processors of the 12th, 13th and 14th generation and offers a fanless design for effective heat dissipation, even in demanding environments. The chassis is made of titanium anodized aluminum heatsink and black steel chassis, which guarantees robust performance even under difficult conditions. Expansion options for additional interfaces, such as WiFi, Bluetooth, LTE or further I/Os, can be easily integrated. This powerful yet energy-efficient platform is ideal for industrial applications such as automation, process monitoring and data acquisition.

Product details

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| Power supply: | 9 VDC to 36 VDC |
| Processor: | Intel® Core™ i3/i5/i7/i9 processors of the 12th, 13th and 14th generation (up to 65 W) |
| System Chipset: | Intel Q670E |
| BIOS: | AMI |
| Memory: | Standard: 1 x M.2 M-Key, 2280 (SATA3, PCIe x4 Gen.3) for SSD Option: 2 x 2.5" SATA3 HDD/SSD (easily replaceable HDD compartment), BIOS supports RAID 0/1 <i>Note: Modules with extended temperature range required</i> |
| Other: | Watchdog timer: 256 steps Antenna: 6 x SMA for Wi-Fi, 4G LTE / 5G / GPS |
| RAM: | 2 x 262-pin DDR5 (4800 MHz) SO-DIMM, up to 64 GB (32 GB per slot) <i>Note: Modules with extended temperature range required</i> |
| TPM: | TPM 2.0 |

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| Interfaces: | USB: 4 x USB 3.2 Gen2 Type-A Serial: 4 x RS-232/422/485, RS-232 selectable by default Ethernet: 2 x 2.5 GbE LAN RJ-45 (i226LM, LAN1 supports iAMT) Audio: 1 x Line-Out 3.5 mm jack, 1 x Mic-In 3.5 mm jack Video: 1 x HDMI 2.0a, up to 4096 x 2160 @60Hz, 1 x DP++ 1.4A, up to 7680 x 4320 @60Hz Power supply: 1 x 3-pin DC power input via terminal block LED indicators: 1 x M.2 SSD, 1 x 2.5" SATA On/off switch: 1 x power button with LED indicator |
| Expansion slots: | 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 Gen1 / USB 2.0) for optional 4G/5G module 1 x Nano-SIM slot |
| Housing: | Coating in titanium gray on aluminum heat sink and black steel housing |
| Assembly: | Wall mounting (standard) & DIN rail rear (optional) |
| Dimensions: | 222 x 217 x 95 mm |
| Weight: | 4.5 kg |
| Ambient conditions: | Operating temperature: -20 to +60 °C (for 35 W CPU) / -20 to +50 °C (for 65 W CPU), ambient temperature with air flow (for industrial storage) Storage temperature: -40 °C to +85 °C Humidity: 10 % to 90 % r.h., non-condensing |
| Certifications: | CE, FCC Class A |
| Operating systems: | Windows 10 IoT LTSC Windows 11 IoT LTSC |
| Expansion options: | Expansion slots: 1 x PCIe x16 + 1 x PCIe x4 (fan optional) <i>Note: PCIe cards (incl. GPU) maximum: L 199 mm, H < 45 mm, W 120 mm</i> Recommended GPU power input: 32 V Optional high-speed expansion interfaces: 2 x USB 3.2 Gen1 Type-A, 2 x GbE LAN RJ-45 (i210AT/i211AT), 8 x via terminal block 1 x 10-pin (4 x On, 4 x Off) |

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| Scope of delivery: | Device Plug-in power supply unit |
| Customs tariff number: | 84715000 |
| Manufacturer: | Aplex Technology Inc. |

Products Order no.

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| AVS-532QL | High-performance Box-PC AVS-532QL, Intel® Core™ of the 12th/13th/14th generation |
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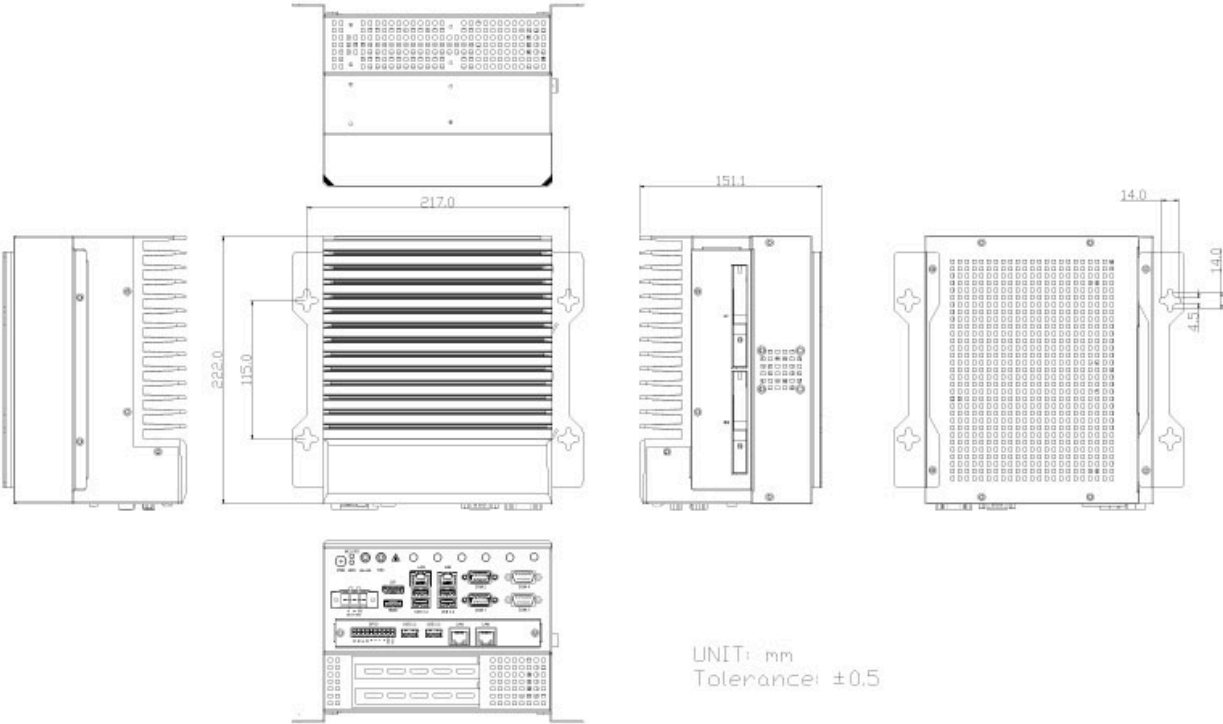
Accessories Order no.

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| ETHSWG5C | 5-way Ethernet switch, Gigabit, unmanaged |
| ETHSWG8C1 | 8-port Ethernet switch, Gigabit, unmanaged |

Drawings

Dimensions (mm) and STEP Viewer:

AVS-532QL_WALL MOUNT





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