

Fanless Box PC AVS-504, 7th generation Intel® Celeron® i3 / i5 / i7



- Demanding applications
- Video interfaces: HDMI, VGA
- 4 x DI, 4 x DO
- Flexible input voltage 9 VDC to 36 VDC
- Various Windows versions, e.g. Win 10 IOT 2019 LTSC

<https://www.wachendorff-prozesstechnik.de/AVS-504>

Description

The AVS series can be equipped with anything from an extremely energy-efficient Intel® Celeron® J1900 processor (2.42 GHz) to a 9th generation i7 / Intel® Xeon® E-2278GE processor (4.70 GHz). The AVS series from Apex is a flexible and compact system family with high expandability and outstanding performance. It is ideal for machine vision and machine automation applications. All PCs in the AVS series have expansion slots in the form of Mini-PCIe, PCIe-16 or M-2 interfaces. The AVS-300 series represents the most compact group within the AVS series. Within this, the AVS-313 is ideal for lighting control due to the 32 integrated GPIOs and additional special 4 DI (trigger input) / 4 DO (light control). Devices in the AVS-500 series are characterized by their particularly extensive expandability and, in addition to the options already mentioned, offer easily accessible PCIe and 2.5" HDD/SSD slots. There are also variants with integrated GPIOs for lighting control. The IPCAVS-600 combines all of the above functions and is the top-of-the-range box PC in the AVS series.

Product details

Power supply:	9 VDC to 36 VDC
Processor:	Intel® Core™ i3-7101TE processor (3M cache, 3.40 GHz) Intel® Core™ i5-7500T processor (6M cache, 3.30 GHz) Intel® Core™ i7-7700T processor (8M cache, 3.80 GHz)
RAM:	Optional 4 GB / 8 GB / 16 GB / 32 GB DDR4 SO-DIMM
SSD/HDD:	2 x 2.5" SATA2 HDD/SSD quick-release bay

Interfaces:

USB: 4 x USB 3.0, type A 2 x USB 2.0, type A
Serial: 1 x RS-232/422/485, DB9 (default RS-232) 1 x RS-232 DB9 1 x RS-422/485, DB9 (default RS-485, optional) 1 x RS-232 DB9 (optional)
Ethernet: 2 x GbE LAN RJ-45
Power supply: Plug-in 3-pin terminal strip
On/off switch: optional plug-in 2-pin terminal strip, see accessories
IPC_DIO_2P
GPIO: 1 x 8-bit GPIO, terminal block
Audio: 1 x line out, 1 x mic-in
Video: 1 x VGA 1 x HDMI

Expansion slots:

2 x 2.5" SATA3 HDD/SSD, Easy-swappable HDD tray
1 x PCIe-16, 1 x PCIe-4, 1x PCIe-1, default
4 x PCI, optional
2 x full-size Mini-PCIe slot

Housing:

Black metal housing with aluminum heat sink

Assembly:

Wall mounting
Top-hat rail (optional)

Protection class:

IP30

Weight:

approx. 4.4 kg

Ambient conditions:	Operating temperature: - 20°C to 60°C (i3/i5 model) - 20°C to 50°C (i7 model) Storage temperature: - 40 to 85 °C Humidity: 10 % to 90 %.rH, non-condensing"
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Certifications:	CE / FCC Class A
Operating systems:	Windows® 10 IoT Linux

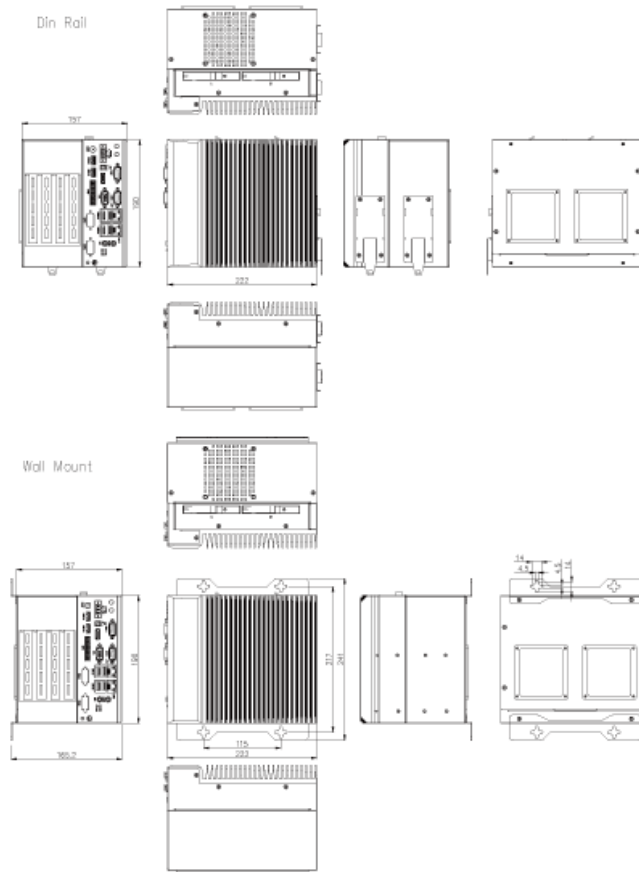
Scope of delivery:	Device
Customs tariff number:	84715000
Manufacturer:	Aplex Technology Inc.

Products Order no.	
AVS-504	Fanless box PC

Accessories Order no.	
ETHSWG5C	5-way Ethernet switch, Gigabit, unmanaged
ETHSWG8C1	8-port Ethernet switch, Gigabit, unmanaged
KABETH10	Patch cable, RJ45 UTP CCA, CAT5e white, 0.3 m
KABETH11	Patch cable, RJ45 UTP CCA, CAT5e white, 1 m
KABETH12	Patch cable, RJ45 UTP CCA, CAT5e white, 2 m
DRS1-24	Power supply unit for top-hat rail, 85 to 264 VAC, 24 VDC 1.25 A, spring terminal
DRS1-24A	Power supply unit for top-hat rail, 85 to 264 VAC, 24 VDC 1.25 A, screw terminal
IPC_DIO_2P	2-pin connector plug, digital input

Drawings

Dimensions (mm):





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