

## AVS-320 fanless box PC, Intel® Celeron® J6413 processor



- Light to medium 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/en/AVS-320>

### 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 IPC AVS-600 combines all of the above functions and expansion options and is the top-of-the-range box PC in the AVS series.

### Product details

Power supply:	9 VDC to 36 VDC
Processor:	Intel® Celeron® J6413 processor (1.5 M cache, 3.00 GHz)
RAM:	Optional 4 GB to 32 GB DDR4 2400 MHz SO-DIMM
SSD/HDD:	1 x 2.5" SATA2 HDD/SSD bay 1 x mSATA

Interfaces:	<p>USB: 1 x USB 3.0 (type A), 3 x USB 2.0 (type A) 2 x USB 2.0 (type A, Internal, via TB-579IL)</p> <p>Serial: 1 x RS232, DB9 (COM3, via TB-579IL)</p> <p>Ethernet: 1 x GbE LAN RJ-45 by intel i210AT(i211AT) controller</p> <p>Power supply: Plug-in 3-pin terminal strip</p> <p>On/off switch: optional plug-in 2-pin terminal strip, see IPC_DIO_2P accessories</p> <p>GPIO: 8 x DI, 8 x DO, 2 x 10 pin Phoenix Connector, isolation (GPIO1, via TB-579IL) 8 x DI, 8 x DO, 2 x 10 pin Phoenix Connector, isolation (GPIO2, via TB-579IL)</p> <p>Audio: 1 x line out</p> <p>Video: Integrated Intel HD Graphics 688/854 MHz(J1900) 1 x VGA up to 1920 x 1200 1 x HDMI up to 1920 x 1200</p>
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Interfaces Extension module:	-
Expansion slots:	<p>1 x 2.5" SATA2 HDD/SSD bay</p> <p>1 x mSATA</p> <p>1 x mini PCIe slot</p>
Housing:	Black metal housing with aluminum heat sink
Assembly:	Wall mounting
Protection class:	IP30
Weight:	approx. 2.15 kg
Ambient conditions:	<p>Operating temperature: -20°C to 70°C</p> <p>Storage temperature: -40 to 85°C</p> <p>Humidity: 10% to 90%.rH, non-condensing</p>
Certifications:	CE / FCC Class A
Operating systems:	<p>Windows® 10 IoT</p> <p>Windows® 11 IoT</p> <p>Linux</p>
Scope of delivery:	Device

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Customs tariff number:	84715000
Manufacturer:	Aplex Technology Inc.

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<b>Products Order no.</b>	
AVS-320	Fanless box PC

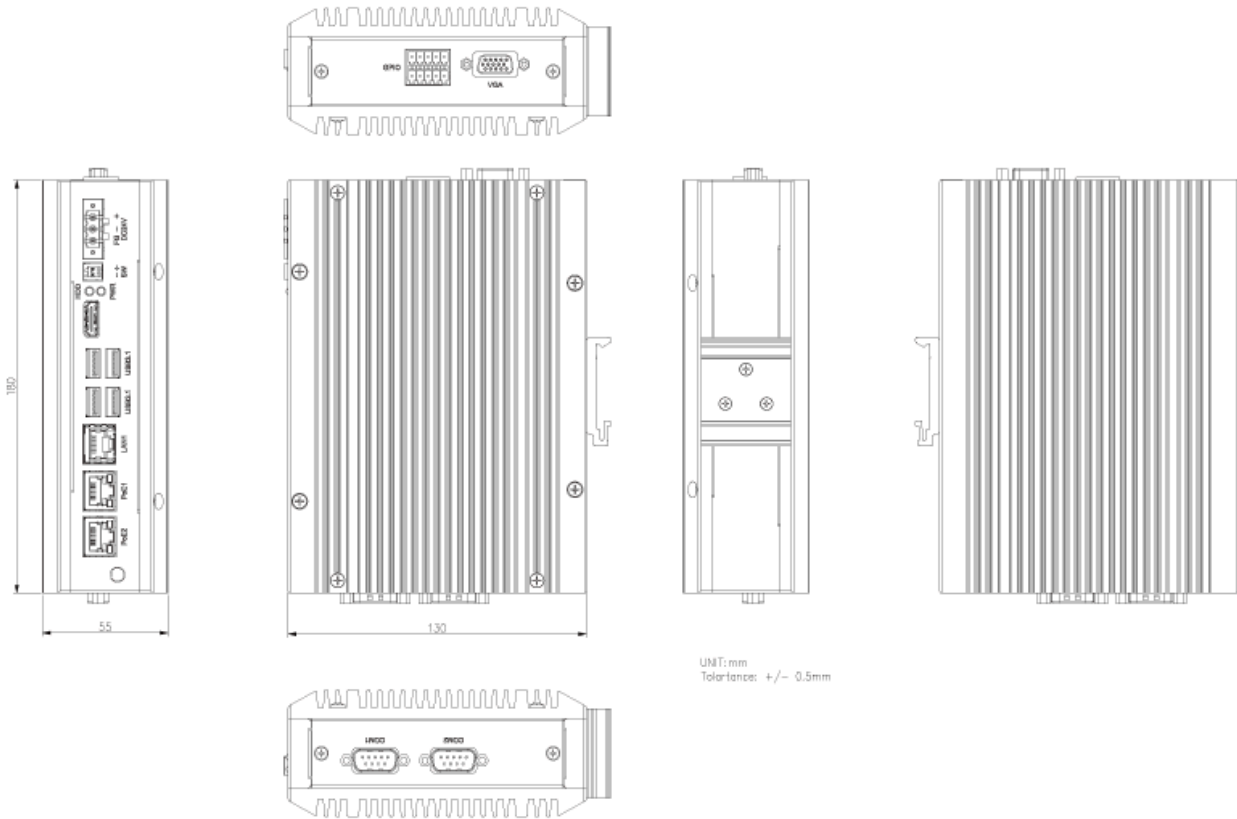
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<b>Accessories Order no.</b>	
ETHSWG5C	5-way Ethernet switch, Gigabit, unmanaged
ETHSWG8C1	8-port Ethernet switch, Gigabit, unmanaged
KABETH10	Patch cable, RJ45 UTP CCA, CAT5e white, 0.3 m
KABETH11	Patch cable, RJ45 UTP CCA, CAT5e white, 1 m
KABETH12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

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**Drawings**

**Dimensions (mm):**





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