

Fanless Box PC AVS-313, Intel® Celeron® J1900 processor



- Light to medium applications
- Video interfaces: HDMI, VGA
- 16 x DI, 16 x DO , 4 DI (trigger input) / 4 DO (light control)
- 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-313>

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® J1900 processor (2M cache, 2.42 GHz)
RAM:	Optional 4 GB or 8 GB DDR3L 1333MHz SO-DIMM
SSD/HDD:	1 x 2.5" SATA2 HDD/SSD bay 1 x mSATA

Interfaces:

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)
 Serial: 1 x RS232, DB9 (COM3, via TB-579IL)
 Ethernet: 1 x GbE LAN RJ-45 by intel i210AT(i211AT) controller
 Power supply: Plug-in 3-pin terminal strip
 On/off switch: optional plug-in 2-pin terminal strip, see IPC_DIO_2P accessories
 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)
 Audio: 1 x line out
 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

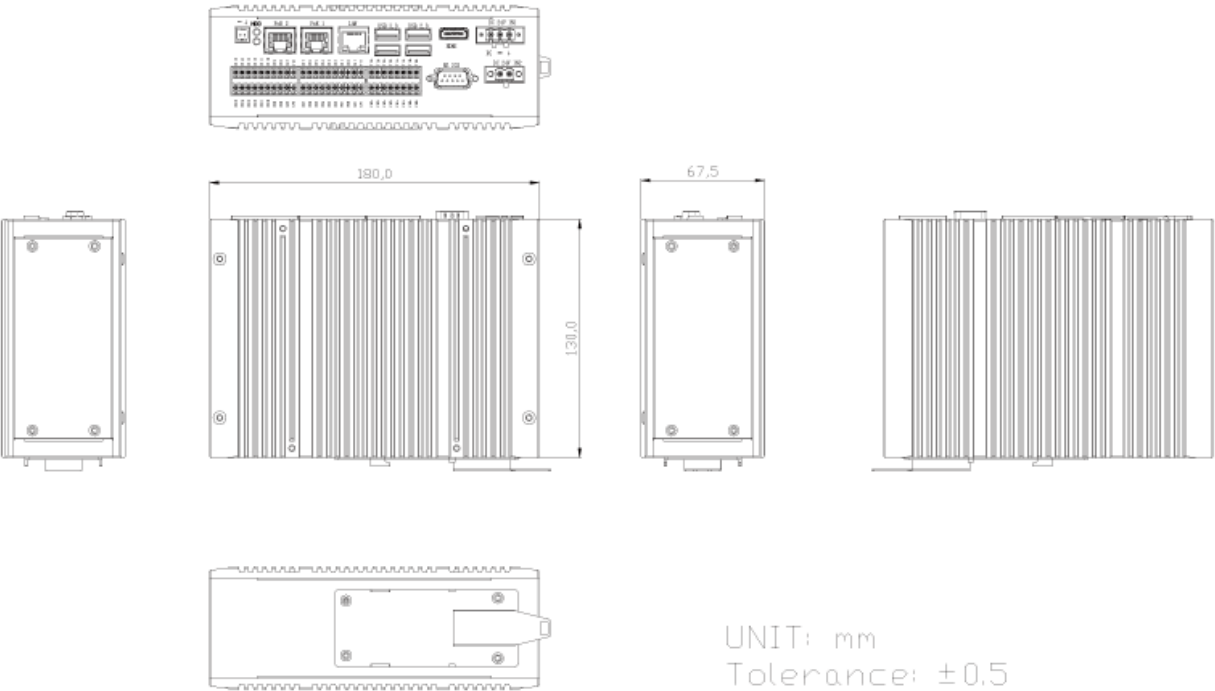
Interfaces Extension module: -

Expansion slots:	1 x 2.5" SATA2 HDD/SSD bay 1 x mSATA 1 x mini PCIe slot
Housing:	Black metal housing with aluminum heat sink
Assembly:	Wall mounting
Protection class:	IP30
Weight:	approx. 2.15 kg
Ambient conditions:	Operating temperature: -20°C to 70°C Storage temperature: -40 to 85°C Humidity: 10% to 90%.rH, non-condensing
Certifications:	CE / FCC Class A
Operating systems:	Windows® 10 IoT Linux
Scope of delivery:	Device
Customs tariff number:	84715000

Manufacturer: Aplex Technology Inc.

Drawings

Dimensions (mm):





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