

AVG-U3EX100-UCDL2

USB-C & USB-B USB 3.2 Switch Extender Host Side



This AVönic product is a 2x1 USB-C & USB-B USB 3.2 switch extender host side. It supports USB 3.2 Gen 1 standard with data transfer rates of up to 5 Gbit/s, and is backward compatible with USB 3.0, USB 2.0 and USB1.1 specifications.

This USB host side can extend the USB 3.2 & USB 3.0 data up to 100m/330ft via a single Cat 6A/7 F/FTP or U/FTP cable. It also features both automatic and manual switching for user convenience and flexibility. Equipped with 2 USB-A ports and 1 USB-C port, the host side allows connection to multiple USB devices. Its pure hardware architecture ensures full compatibility with all standard USB transmission types, including Control, Bulk, Interrupt, and Isochronous protocols. Additionally, the device supports one-way PoH+, enabling the host side to supply power for the connected device side.

Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- 2x1 USB-B & USB-C USB 3.2 switch extender host side.
- Supports USB 3.2 Gen 1 standard, and backward compatible with USB 3.0, USB 2.0, and USB 1.1 standards.
- Supports data transfer rate up to 5Gbit/s.
- Supports transmitting USB signal up to 100m/330ft via a signal Cat 6A/7 F/FTP or U/FTP cable.
- One USB-C host port supports up to 100W charging.
- Pure hardware architecture is compatible with Control / Bulk / Interrupt / Isochronous transmission protocols.
- Provides two USB-A ports sharing (shared 2.5A current output) and one USB- C port (1.5A output) for connecting high-power USB devices.
- RS232 and FSYNC GPIO pass-through for industrial camera control.
- Plug and play, no driver is required, and compatible with multiple operating systems.
- Support firmware upgrading via micro-USB port and RS232 port.
- Supports auto switch and manual switch (via front panel button).
- Supports one-way PoH+ function, enabling the host side to supply power for the connected device side with PD module.

Compatible Devices

- A list of devices that are compatible for use with this device side:
- USB 3.2 box device side with 4x USB type-A ports
- USB 3.2 box device side with 3x USB type-A device ports and 1x USB type-C device port
- USB 3.2 wall-plate device side with 3x USB type-A device ports and 1x USB type-C device port
- USB 3.2 box device side with 2x 4K HDMI output, 1G LAN, 2x USB-A/1x USB-C ports and audio out (use DisplayLink technology)
- Note: Refer to the their own manuals to get detail information about above device sides.

Specifications

Technical	
Input/output Port	1 x USB-C HOST; 1 x USB-B HOST; 2 x USB-A DEVICE; 1 x USB-C DEVICE; 1 x RS232 & FSYNC (3.5mm, 4-Pin Phoenix Connector); 1 x USB3-LINK (RJ45); 1 x POWER; 1 x UPDATE (Micro-USB)
USB Standard	USB 3.2 Gen1, and backward compatible with USB 3.0, USB 2.0, and USB 1.1 standards
Data Rate	Up to 5Gbit/s

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	20V, 8A
Power Consumption (Max)	<ul style="list-style-type: none"> • Typical power consumption under normal USB data transmission: 5W; • Output power consumption: Charging for the USB-C laptop: 100W (max); supply power for RX via PoH+: 30W (max); USB-A+USB-C output power consumption: 20W (max)
Device Dimension (W x H x D)	8.46" x 0.98" x 4.72" / 215mm x 25mm x 120mm
Product Weight	1.5lbs/0.68kg

Transmission Distance

Cable Type	Range
Cat 6A/7 (U/FTP, S/FTP or F/FTP) Cable	100m/330ft

Note:

- T568B straight-through category cable is recommended.
- Please use U/FTP, S/FTP or F/FTP cable, and don't use UTP, F/UTP, or U/UTP cables.



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