

AVG-U3EX100-UCTW

100m USB 3.2 HDBaseT Extender with RS232&FSYNC and PoH+



This AVönic product is a new generation of USB 3.2 & USB 3.0 extender. It supports USB 3.2 Gen 1 standard with up to 5Gbit/s USB data transmission rate, and is backward compatible with USB 3.0, USB 2.0 and USB1.1 specifications.

This USB extender 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. 3 USB-A ports and 1 USB-C port are built-in the Device side, which can be connected with multiple USB devices. Pure hardware architecture is compatible with Control / Bulk / Interrupt / Isochronous transmission protocols. For multiple USB device scenarios, this extender can also be used with an external USB 3.2 & 3.0 hub.

With two-way PoH+ function, the extender can only need one power supply to be connected to the host side or device side to power both units, which is especially suitable for scenarios where the device side can't be connected to a power supply (such as in outdoor monitoring scenario).

Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- Supports USB 3.2 Gen 1 standard, and backward compatible with USB 3.0, USB 2.0, and USB 1.1 standards.
- Supports up to 5Gbit/s data transmission rate.
- Supports transmitting USB signal up to 100m/330ft via a signal Cat 6A/7 F/FTP or U/FTP cable.
- Pure hardware architecture is compatible with Control / Bulk / Interrupt / Isochronous transmission protocols.
- Provides three USB-A and one USB-C device ports on the Device side, including one 1.5A USB-A port and one 1.5A USB-C port for connecting high-power USB devices.
- Occupies two USB hub tier and supports connecting additional USB hub devices.
- Supports 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.
- Built-in two-way PoH+ modules, only needs to be connected to one power adapter to the Host side or Device side to power both units.

Specifications

Technical	
Input/Output Port	Host Side: 1 x USB HOST (USB Type-C); 1 x RS232 & FSYNC (3.5mm, 4-Pin Phoenix Connector); 1 x HDBaseT OUT (RJ45); 1 x POWER; 1 x UPDATE (Micro-USB) Device Side: 4 x USB DEVICE (3 USB Type-A + 1 USB Type-C); 1 x RS232 & FSYNC (3.5mm, 4-Pin Phoenix Connector); 1 X HDBaseT IN (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, 3A
Power Consumption (Max)	31.28W (Pair, USB fully loaded)
Device Dimension (W x H x D)	Host Side/Device Side: 130mm x 22.5mm x 120mm / 5.12" x 0.89" x 4.72"
Product Weight	Host Side: 0.35kg/0.77lb Device Side: 0.34kg/0.75lb

Transmission Distance

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

Note:

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



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