

## AVG-U3EX100-TW

100m USB 3.2&3.0 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. It has a built-in 4-port USB hub in the receiver, 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 transmitter or receiver to power both units, which is especially suitable for scenarios where the receiver 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 four USB 3.2 & 3.0 device ports on the receiver, includes one 1.5A port for connecting high-power USB devices.
- Occupies two USB hub tiers and supports connecting additional USB h 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 PoH + module, only one power adapter is needed to be connected to either side.

## Specifications

Technical	
Input/Output Port	<p>Transmitter: 1 x USB HOST (USB Type-B); 1 x RS232 &amp; FSYNC (3.5mm, 4-Pin Phoenix Connector); 1 X USB3-LINK (RJ45); 1 x POWER; 1 x FW (Micro-USB)</p> <p>Receiver: 4 x USB DEVICE (USB Type-A); 1 x RS232 &amp; FSYNC (3.5mm, 4-Pin Phoenix Connector); 1 X USB3-LINK (RJ45); 1 x POWER; 1 x FW (Micro-USB)</p>
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)	Transmitter/Receiver: 150mm x 20.5mm x 100mm / 5.9" x 0.81" x 3.94"
Product Weight	Transmitter: 0.35kg/0.77lb Receiver: 0.34kg/0.75lb

## Transmission Distance

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Cable Type	Range	Supported USB Devices
Cat 5e/6	Up to 263ft (80m)	USB-HID device
	Up to 197ft (60m)	USB 2.0 storage device

**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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