

100m USB3.2 & 3.0 Extender

(KEU200)



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Date: 2024/11 Version: V 1.0



Product Description

This 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

- 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 highpower USB devices.
- Occupies two USB hub tiers 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 PoH + module, only one power adapter is needed to be connected to either side.



Product Overview

KEU200_TX (Front View)



No.	Name	Description	
1	USB HOST	Connect to a host device such as a PC.	
2	RS232 & FSYNC (IN)	RS232 pass through. FSYNC GPIO input, 3.3V.	

KEU200_TX (Rear View)



No.	Name	Description		
1	20V	Connect to the power adapter provided. With two-way PoH, one power adapter is needed to be connected to the transmitter or receiver to power both units.		
2	POWER LED	On: The device is powered on. Off: The device is powered off.		
3	LINK LED	On: The HDBT link is normal. Blinking/Off: No HDBT link or link error.		
4	USB3-LINK	Connect to the USB3-LINK port of the receiver.		
5	DATA LED	On: The USB data is being transmitted. Off: There's no USB data being transmitted.		
6	UPDATE	Micro-USB port, for firmware upgrade.		

KEU200_RX (Front View)





No.	Name	Description	
1	USB 3.0	Connect to USB devices. Note: One 1.5A USB port can be used to connect with high- power USB devices such as USB camera.	
2	RS232 & FSYNC (OUT)	RS232 pass-through. FSYNC GPIO output, 3.3V.	

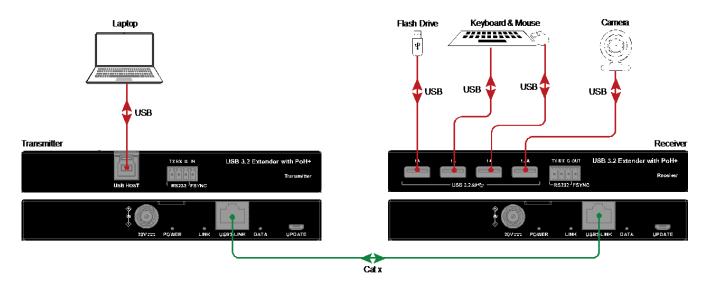
KEU200_RX (Rear View)



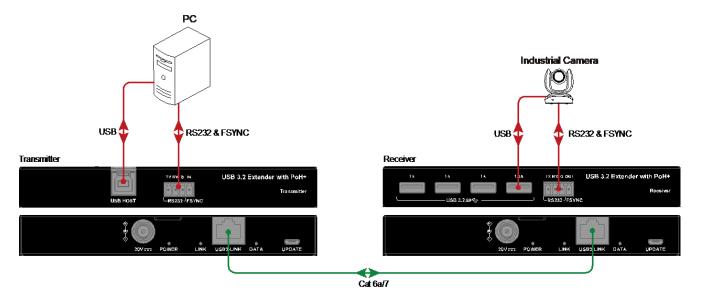
No.	Name	Description	
1	20V	Connect to the power adapter provided. With two-way PoH, one power adapter is needed to be connected to the transmitter or receiver to power both units.	
2	POWER LED	On: The device is powered on. Off: The device is powered off.	
3	LINK LED	On: The HDBT link is normal. Blinking/Off: No HDBT link or link error.	
4	USB3-LINK	Connect to the USB3-LINK port of the receiver.	
5	DATA LED	On: The USB data is being transmitted. Off: There's no USB data being transmitted.	
6	UPDATE	Micro-USB port, for firmware upgrade.	



Connection Diagram



RS232 & FSYNC





Specifications

Technical	Devices	Specifications	
	Transmitter	1 x USB HOST (USB Type-B)	
		1 x RS232 & FSYNC (3.5mm, 4-Pin Phoenix Connector)	
		1 X USB3-LINK (RJ45)	
		1 x POWER	
Input/Output Port		1 x FW (Micro-USB)	
	Receiver	4 x USB DEVICE (USB Type-A)	
		1 x RS232 & FSYNC (3.5mm, 4-Pin Phoenix Connector)	
		1 X USB3-LINK (RJ45)	
		1 x POWER	
		1 x FW (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		
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-co	ondensing	
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	Transmitter/Receiver: 150mm x 20.5mm x 100mm / 5.9" x 0.81" x		
(W x H x D)	3.94"		
Product Weight	Transmitter: 0.35kg/0.77lb Receiver: 0.34kg/0.75lb		
	receiver. 0.34kg/0.73lb		