

### USB 3.2 Gen1 4-Port Extender Kit, 100m 500530







#### **Overview**

The USB 3.2 Gen1 4-Port Extender Kit, 100m (model: 500530) enables USB 3.2 Gen1 connectivity at data rates up to 5Gbps & extends true USB up to 100m (328ft) over standard Catóa UTP. Transmitter features with one USB 3.2 Gen1 Type B input, one FSYSNC GPIO input and one RS-232 pass-through. Receiver features with four USB 3.2 Gen1 Type A outputs, one FSYSNC GPIO output and one RS-232 pass-through. The device also supports 24V Bidirectional PoC.

The USB 3.2 Gen1 4-Port Extender Kit, 100m is true plug and play, requires no additional software drivers, and is compatible with all major operating systems. The unit supports a wide variety of USB extension applications including security, industrial control, digital signage, scientific data acquisition and other implementations of USB standards.

#### **Applications**

- Conference Rooms
- Classroom Projector Systems
- Collaborative PC Systems
- Digital Signage
- Educational Institutions
- Boardroom Systems

#### **Key Features**

- Extension of USB 3.2 Gen1 up to 100m/328ft over CAT6a cable
- USB 3.2 Gen1 connectivity with data transfer rate up to 5Gbps
- Backwards compatible with USB 2.0 and USB 1.1
- Hardware acceleration for isochronous and bulk transfer
- USB-A port 1 and 2 support 5VDC/1.5A, port 3 and 4 support 5VDC/1A on the Receiver
- Support RS-232 pass-through and FSYNC GPIO pass-through (for industry camera use)
- Support bi-directional 24VDC PoC
- Simple plug and play, no driver and setting installation required

# **Specification**

USB Protocol   Transmission Rate   Up to 5Gbps	Technical	
Transmission Rate		HCD 7.0.0. 1
Network Bandwidth   10G		
Transmission Distance   100m/328ft over CAT6α (F/FTP) cable   IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)		' '
IEC 61000-4-2:		
ESD Protection           ±8kV (Air-gap discharge), ±4kV (Contact discharge)           Connection           Input: 1 × USB HOST [USB-B, 9pin Female]           Output: 1 × HDBT OUT [RJ45, Female]           Control: 1 × RS-232 [3pin-3.5mm Phoenix Connector]           1 × FSYNC [Ipin-3.5mm Phoenix Connector]           1 × SERVICE [USB-C,Update Port]           Input: 1 × HDBT IN [RJ45, Female]           Output: 4 × USB Devices [USB-A, 9pin Female]           Control: 1 × RS-232 [3pin-3.5mm Phoenix Connector]           1 × FSYNC [Ipin-3.5mm Phoenix Connector]           1 × SERVICE [USB-C,Update Port]           Mechanical           Housing           Color         Black           Dimensions         Transmitter / Receiver: 85mm [W] × 100mm [D] × 25.5mm [H]           Weight         Transmitter: 253g, Receiver: 260g           Input: 100~240VAC 50/60Hz           Output: 24VDC/2A           Power Consumption         PoC Power Supply:40W (Max)           Operating Temperature         0°C ~ 40°C /32°F ~ 104°F           Storage Temperature         -20°C ~ 60°C / -4°F ~ 140°F	Transmission Distance	
Input:	ESD Protection	
Input: 1 x USB HOST [USB-B, 9pin Female] Output: 1 x HDBT OUT [R]45, Female] Control: 1 x RS-232 [3pin-3.5mm Phoenix Connector] 1 x FSYNC [Ipin-3.5mm Phoenix Connector] 1 x SERVICE [USB-C,Update Port]  Input: 1 x HDBT IN [R]45, Female] Output: 4 x USB Devices [USB-A, 9pin Female] Control: 1 x RS-232 [3pin-3.5mm Phoenix Connector] 1 x FSYNC [Ipin-3.5mm Phoenix Connector] 1 x FSYNC [Ipin-3.5mm Phoenix Connector] 1 x SERVICE [USB-C,Update Port]  Mechanical  Housing Metal Enclosure Color Dimensions Transmitter / Receiver: 85mm [W] x 100mm [D] x 25.5mm [H] Weight Transmitter: 253g, Receiver: 260g Input: 100~240VAC 50/60Hz Output: 24VDC/2A Power Consumption PoC Power Supply:40W (Max) Operating Temperature 0°C ~ 40°C /32°F ~ 104°F Storage Temperature -20°C ~ 60°C / -4°F ~ 140°F		±8kV (Air-gap discharge), ±4kV (Contact discharge)
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Storage Temperature $-20^{\circ}\text{C} \sim 60^{\circ}\text{C} / -4^{\circ}\text{F} \sim 140^{\circ}\text{F}$	•	
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Relative Humidity 20~90% RH (non-condensing)	Relative Humidity	20~90% RH (non-condensing)
Generic Specification		
Warranty 2 years	Warranty	2 years
Order Information 500530 USB 3.2 Gen1 4-Port Extender Kit, 100m (UPC: 627699005309)	•	500530 USB 3.2 Gen1 4-Port Extender Kit, 100m (UPC: 627699005309)

## **Application Example**













