USB 3.0 EXTENDER

USB 3.2 Gen 1, 5Gbps, RS-232, FSYNC, PoC, 100m
Model: DSG-USB-EU300

The USB 3.0 Extender can extend USB signals up to a distance of 100m (328ft) via a single CAT6a cable. The Transmitter features one USB 3.0 Type B input, one FSYNC GPIO input and one RS-232 pass-through. The Receiver features four USB 3.0 Type A outputs, one FSYNC GPIO output and one RS-232 pass-through. Bi-directional 24V PoC is also supported. This product can be widely used for long-distance signal transmission between a PC and USB devices.

☆   Extension of USB 3.0 up to 100m/328ft over CAT6a cable

☆   USB 3.0 connectivity with a data transfer rate up to 5Gbps

☆   Backward compatible with USB 2.0 and 1.1

☆   Hardware acceleration for isochronous and bulk transfers

☆   USB-A Port 1 and 2 support 5V/1.5A, Port 3 and 4 support 5V/1A on the Receiver

☆   Supports RS-232 pass-through and FSYNC GPIO pass-through (for industrial camera use)

☆   Supports bi-directional 24V PoC

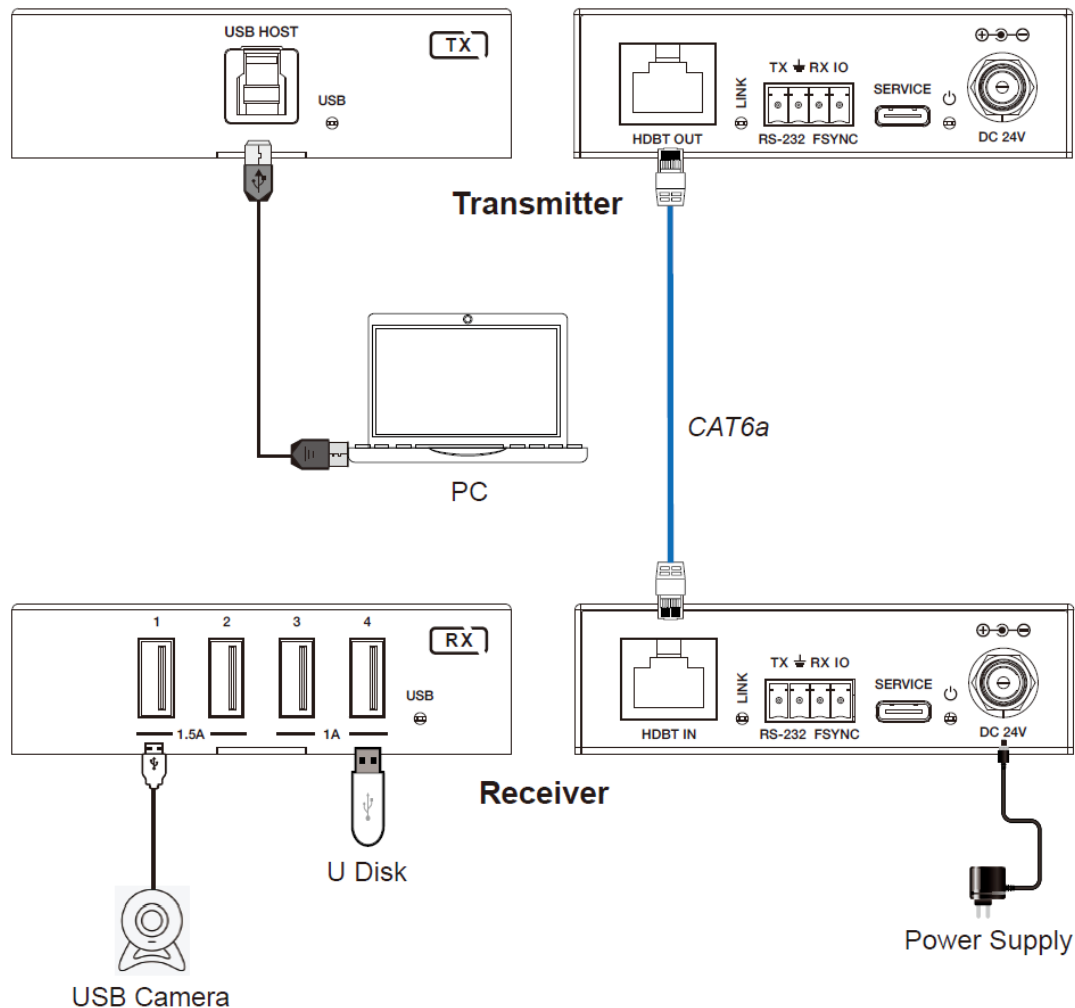☆   Simple plug and play, no driver and configuration required

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SPECIFICATIONS

Technical	
USB Protocol	USB 3.0
Transmission Rate	Up to 5Gbps
Network Bandwidth	10G
Transmission Distance	100m/328ft over CAT6a (F/FTP) cable
ESD Protection	IEC 61000-42: ±8kV (air-gap discharge) and ±4kV (contact discharge)
Connections	
Transmitter	Input: 1 × USB HOST [USB-B, 9 pin Female] Output: 1 × HDBT OUT [RJ45, Female] Control: 1 × RS-232 [3 pin-3.5mm Phoenix Connector] 1 × FSYNC [1 pin-3.5mm Phoenix Connector] 1 × SERVICE [USB-C, Update Port]
Receiver	Input: 1 × HDBT IN [RJ45, Female] Output: 4 × USB Devices [USB-A, 9 pin Female] Control: 1 × RS-232 [3 pin-3.5mm Phoenix Connector] 1 × FSYNC [1 pin-3.5mm Phoenix Connector] 1 × SERVICE [USB-C, Update Port]
Mechanical and Environmental	
Housing	Metal Enclosure
Colour	Black
Dimensions	Transmitter / Receiver: 85mm [W] × 100mm [D] × 25.5mm [H]
Weight	Transmitter: 253g Receiver: 260g
Power Supply	Input: AC 100~240V 50/60Hz Output: DC 24V/2A
Power Consumption	PoC Power Supply: 40W (Max)
Operating Temperature	0°C to 40°C / 32°F to 104°F
Storage Temperature	-20°C to 60°C / -4°F to 140°F
Relative Humidity	20 to 90% RH (non-condensing)

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CONNECTION DIAGRAM

PACKAGE CONTENTS

①   1 × USB 3.0 Extender (Transmitter)
②   1 × USB 3.0 Extender (Receiver)
③   1 × 24V/2A Locking Power Supply
④   2 × 4 pin-3.5mm Phoenix Connector (Male)
⑤   4 × Mounting Ear
⑥   8 × Machine Screw (KM3*4)
⑦   1 × User Manual

DISCLAIMER

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