

DVDO

DVDO-Xtend-USBC-70

USB-C to HDMI 70m Extender Over HDBaseT 3.0



DVDO-Xtend-USBC-70 is an HDBaseT 3.0 extender that can transmit uncompressed USB-C video and USB 2.0 high speed data signals up to 230ft/70m (4K30) or 131ft/40m (4K60) via a single CAT6A/7 cable.

The transmitter includes 1 x USB-C input, 1 x dedicated USB-C charging port and 2 x USB Device ports.

The USB-C input supports DP Alt mode with video resolutions up to 4K60 4:4:4 at 18Gbps, USB 2.0 data and power charging up to 100W.

The receiver includes 1 x HDMI output and 4 x USB Device ports.

DVDO-Xtend-USBC-70 supports HDR, RS-232 pass-through and bi-directional 24V PoC.

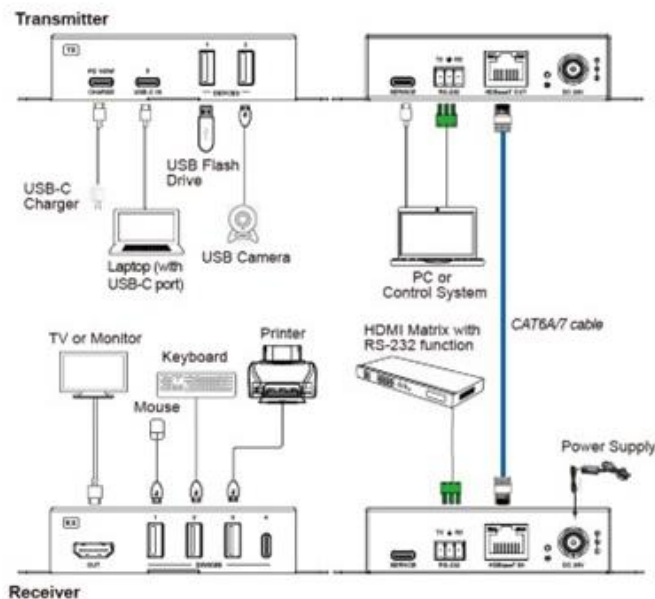
Features

- Compliant with HDMI 2.0b, HDCP 2.3 & HDBaseT 3.0
- Video resolution up to 4K@60Hz (4:4:4 8bit) @ 18Gbps
- Extends uncompressed 4K60 signals up to or 131ft/40m and 4K30 signals up to 230ft/70m with CAT6A/7 cable
- Tx includes 1 USB-C input, 1 dedicated USB-C charging port and 2 USB Device ports
- USB-C supports DP-ALT mode for AV (v1.2a), USB 2.0 data and power charging up to 100 watts
- Rx includes 1 HDMI output and 4 USB 2.0 Device ports
- Each USB-A provides power up to 5V/1A
- HDR, HDR10+, Dolby Vision LLM and HLG pass-through
- USB 2.0 high speed over HDBaseT 3.0
- RS-232 signal pass-through
- Audio passthrough: LPCM 2.0/5.1/7.1CH, Dolby True HD, Dolby Atmos, DTS-HD Master Audio and DTS:X
- Bi-directional 24V PoC

Applications

- Conference Rooms
- Boardrooms
- Training Rooms
- Education
- Digital Signage
- Retail
- Houses of Worship
- Residential

Application Diagram



Technical Specifications

Technical	
Compliance	HDMI 2.0b / HDCP 2.3 / USB 2.0
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	USB-C/HDMI passthrough: LPCM 2.0/5.1/7.1CH, Dolby True HD, Dolby Atmos, DTS-HD Master Audio, DTS:X
Transmission Distance	- Extends 4K60 4:4:4 8bit signals up to 131ft/40m (CAT6A/7) and 4K30 4:4:4 8bit signals up to 230ft/70m (CAT6A/7) - USB 2.0 passthrough up to 23ft/70m, connecting to 4 USB devices on the Rx
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Transmitter	Front Panel: 1 x CHARGE [USB Type C, 24-pin female] 1 x USB-C IN [USB Type C, 24-pin female] 2 x USB 2.0 Devices [USB Type A, 4-pin female] Rear Panel: 1 x SERVICE [USB-C with USB 2.0 only, 12-pin female, firmware upgrade port] 1 x RS-232 [3-pin phoenix with 3.5mm pitch] 1 x HDBaseT OUT [RJ45, 24V PoC] 1 x Power LED [Red LED, Power Indicator] 1 x DC 24V [24V/2.7A, 19mm locking connector] Side Panel: 1 x PoC ON/OFF [1-pin DIP switch, 24V PoC ON/OFF selection]
Receiver	Front Panel: 1 x HDMI OUT [HDMI Type A, 19-pin female] 1 x USB 2.0 Devices [USB Type C, 12-pin female] 3 x USB 2.0 Devices [USB Type A, 4-pin female] Rear Panel: 1 x SERVICE [USB-C with USB 2.0 only, 12-pin female, firmware upgrade port] 1 x RS-232 [3-pin phoenix with 3.5mm pitch] 1 x HDBaseT IN [RJ45, 24V PoC] 1 x Power LED [Red LED, Power Indicator] 1 x DC 24V [24V/2.7A, 19mm locking connector] Side Panel: 1 x PoC ON/OFF [1-pin DIP switch, 24V PoC ON/OFF selection]
Mechanical	
Housing	Black Metal Enclosure
Dimensions	Tx/Rx: 120mm [W] x 113mm [D] x 25.5mm [H]
Weight	Transmitter: 353g, Receiver: 352g
Power Supply	Input: AC 100 - 240V 50/60Hz / Output: DC 24V/2.7A (US/EU standard, CE/FCC/UL certified)
Power Consumption	Tx/Rx with full USB devices: 51.36W Tx/Rx without USB devices: 10.08W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Operating Humidity	20 - 80% relative humidity (non-condensing)
Storage Humidity	10 - 90% relative humidity (non-condensing)