

DVDO

DVDO-USBC-HDMI-PS-21-Xtend

2x1 Presentation Switcher / Extender
with USB-C & HDMI Inputs

DVDO-USBC-HDMI-PS-21-Xtend is a 2x1 presentation switcher / extender. The transmitter includes 1 HDMI + 1 USB-C inputs and 1 HDMI with 1 mirrored HDBaseT outputs.

It supports video resolutions up to 4K60 4:4:4 and can extend uncompressed 4K signals up to 328ft/100m over HDBaseT 3.0 with a single Cat6a or Cat7 cable.

The USB-C input supports DP-Alt mode for video, 5Gbps for data transfer and 60W power delivery.

The unit provides USB switching and extension through multiple USB device ports on both Tx and Rx.

It also provides audio de-embedding with separate audio inputs on both Tx & Rx.

It can be controlled via the front panel buttons, CEC, RS232 or IP with an intuitive web GUI and supports bidirectional PoC.



Features

- HDMI 2.0b, HDCP 2.2, HDBaseT 3.0, DP1.4
- Video resolutions up to 4K@60Hz 4:4:4 @ 18Gbps
- Transmission of uncompressed 4K & 1080p signals up to 328ft/100m over a single Cat6a or Cat7 cable
- Manual & auto switching modes
- Inputs: 1 x USB-C + 1 x HDMI
- Outputs: 1 x HDMI + 1 x HDBT (Tx) / 1 x HDMI (Rx)
- USB-C input supports 4K60 DisplayPort Alt Mode, USB 3.2 Gen 1 up to 5Gbps and 60W charging
- Audio de-embedding with separate balanced audio outputs on both Tx & Rx
- Multiple USB device ports: 2 x USB-A 3.0 on Tx / 3 x USB-A 2.0 + 1 x USB-C on Rx
- Advanced EDID management
- Control via front panel buttons, CEC, RS-232, TCP/IP or intuitive web GUI
- Bidirectional 48V PoC

Applications

- Conference Rooms
- Training Rooms
- Lecture Halls
- Boardrooms
- Education
- Classrooms

Application Diagram



Technical Specifications

Technical	
Compliance	HDMI 2.0b / HDCP 2.2 / DP1.4
Video Bandwidth	18Gbps
Transmitter	
Video Inputs	1 x HDMI [Type A female] 1 x USB-C [24-pin female]
Input Resolutions	HDMI: up to 4K@60Hz 4:4:4 HDR10 USB-C: up to 4K@60Hz 4:4:4 (DP Alt mode)
Video Outputs	1 x HDMI [Type A female] 1 x HDBaseT [RJ45]
Video Resolutions	HDMI: up to 4K@60Hz 4:4:4 HDR10 HDBaseT: up to 4K@60Hz 4:2:0
Receiver	
Video Inputs	1 x HDBaseT [RJ45]
Input Resolutions	Up to 4K@60Hz 4:2:0
Video Outputs	1 x HDMI [Type A female]
Video Resolutions	Up to 4K@60Hz 4:4:4 HDR10
Audio	
Audio Formats	HDMI: LPCM 7.1 audio, Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, DTS:X, and DTS-HD Master Audio pass-through
Audio Connectors	Transmitter: 1 x 5-pin terminal block Receiver: 1 x 5-pin terminal block
Frequency Response	20Hz–20KHz, ±3dB
Max Output Level	0.88 Vrms ± 0.5 dB. 2 V = 16 dB headroom above -10 dBV (316 mV) nominal consumer line level signal
THD+N	< 0.05% (-80 dB), 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0 dBFS level (or max level)
SNR	> 80dB, 20Hz-20 kHz bandwidth
Crosstalk Isolation	< -80 dB, 10 kHz sine at 0 dBFS level (or max level before clipping)
L-R Level Deviation	< 0.3 dB, 1 kHz sine at 0 dBFS level (or max level before clipping)

Output Load Capability	1KΩ and higher (supports 10x paralleled 10KΩ loads)
Noise Level	> 70dB @ 1 kHz
Control	
Control Ports	Transmitter: 1 x EDID switch [4-pin DIP switch] 2 x DEVICES [USB-A] 1 x ETHERNET [RJ45] 1 x FW [Micro-USB] 1 x HOST [USB-B] 2 x GR [3-pin terminal block] 2 x RS232 [3-pin terminal block] 1 x TCP/IP [RJ45] Receiver: 4 x DEVICES [3 x USB-A + 1 x USB-C] 1 x ETHERNET [RJ45] 1 x RS232 [3-pin terminal block]
Mechanical	
Enclosure	Black metal
Dimensions	Transmitter: 265mm [W] x 150mm [D] x 32mm [H] Receiver: 173mm [W] x 95mm [D] x 24.5mm [H]
Weight	Transmitter: 1.02kg; Receiver: 410g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/5A
Power Consumption	76.5W (Max)
USB-C Power Charging	60W (Max)
Operating Temperature	-5°C ~ 55°C / 23°F ~ 131°F
Storage Temperature	-25°C ~ 70°C / -13°F ~ 158°F
Relative Humidity	10%~90%