

DVDO

DVDO-Xtend-2USBC-2HDMI-100

2-Host USB-C & USB 3.2 Gen 1
100m Extender over HDBaseT
with 2 HDMI Outputs



DVDO-Xtend-2USBC-2HDMI-100 is a 2-host HDBaseT extender that can transmit USB 3.2 Gen 1 or USB 2.0 signals up to 328ft/100m via a single CAT6a cable and display them on two HDMI displays.

The transmitter includes 2 selectable (auto or manual switching) USB-C Host ports and 1 USB-C + 2 USB-A Device ports.

The receiver includes 2 HDMI outputs, 1 USB-C + 2 USB-A Device ports and a balanced / unbalanced analog audio output.

The two HDMI outputs can be either mirrored outputs or they can display different content using screen extend (from one host at a time).

DVDO-Xtend-2USBC-2HDMI-100 supports RS-232 pass-through and bi-directional 24V PoC.

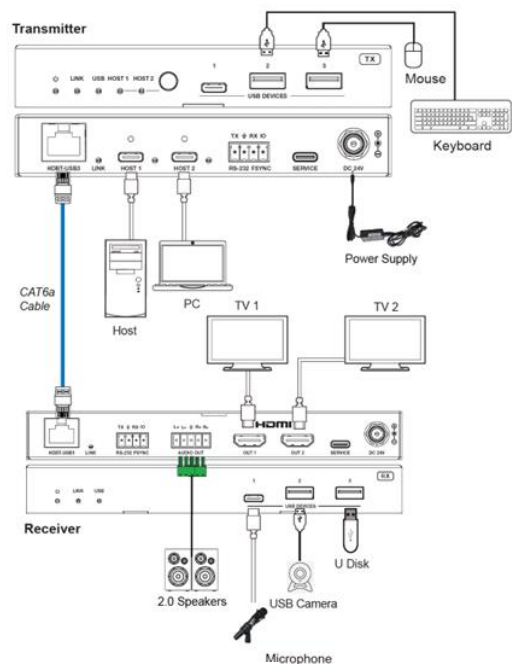
Features

- Extension of USB 3.2 Gen 1 up to 100m/328ft via CAT6a cable
- USB 3.2 Gen 1 connectivity with data transfer rate up to 5Gbps
- Backwards compatible with USB 2.0 and 1.1
- Hardware acceleration for isochronous and bulk transfer
- Built-in DisplayLink technology for video over USB on dual HDMI outputs, with resolutions up to 4K@60Hz
- Tx supports auto and manual switching selectable via switch button or API commands
- Rx supports audio de-embedding to balanced / unbalanced analog output
- Firmware upgrade via USB-C service port
- FSYNC GPIO pass-through for industrial camera use
- RS-232 pass-through and API control
- Bi-directional 24V PoC

Applications

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

Application Diagram



Technical Specifications

Technical		Mechanical	
Compliance	HDMI 2.0b / HDCP 2.2 / USB 3.2 Gen 1 (5Gbps)	Housing	Black Metal Enclosure
Video Bandwidth	18Gbps	Dimensions	Transmitter: 140 [W] x 75 [D] x 23mm [H] Receiver: 180 [W] x 95 [D] x 23mm [H]
Video Resolution	Up to 4K@60Hz	Weight	Transmitter: 324g, Receiver: 486g
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0	Power Supply	Input: AC 100-240V 50/60Hz Output: DC 24V/3.75A (US/EU standards, CE/FCC/UL certified)
Color Depth	8/10/12-bit	Power Consumption	Transmitter: 18.48W (max) Receiver: 19.44W (max)
Transmission Distance	- 100m/328ft via Cat6a (F/FTP) cable - 1.5m/4.9ft via USB cable - 3m/9.8ft via HDMI passive cable	Operating Temperature	32 - 104°F / 0 - 40°C
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)	Storage Temperature	-4 - 140°F / -20 - 60°C
Connections		Operating Humidity	20 - 80% relative humidity (non-condensing)
Transmitter	Inputs: 2 x USB-C HOST [USB Type C, 24-pin female] Outputs: 2 x USB-A DEVICE [USB Type A, 9-pin female] 1 x USB-C DEVICE [USB Type C, 24-pin female] 1 x HDBaseT-USB3 [RJ45 connector, 24V PoC] Control: 1 x RS-232 [3-pin 3.5mm phoenix connector] 1 x FSYNC [1-pin 3.5mm phoenix connector] 1 x SERVICE [USB Type C, firmware update port]	Storage Humidity	10 - 90% relative humidity (non-condensing)
Receiver	Inputs: 1 x HDBaseT-USB3 [RJ45 connector, 24V PoC] Outputs: 2 x USB-A DEVICE [USB Type A, 9-pin female] 1 x USB-C DEVICE [USB Type C, 24-pin female] 2 x HDMI [Type A, 19-pin female] Control: 1 x RS-232 [3-pin 3.5mm phoenix connector] 1 x FSYNC [1-pin 3.5mm phoenix connector] 1 x SERVICE [USB Type C, firmware update port]		