HD-HPCU-Tx

HDBaseT Transmitter with 2x1 HDMI and VGA Switcher
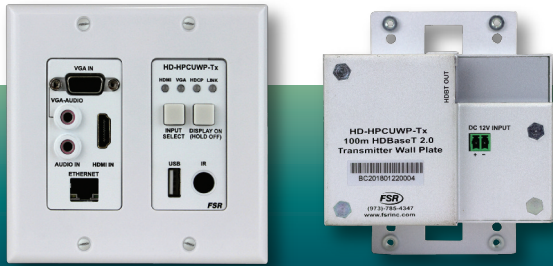
FSR
Video Products Group

DESCRIPTION

The FSR HD-HPCUWP-Tx is a 2x1 auto switcher for HDMI and VGA w/audio inputs with an HDBaseT 2.0 output. It features standard two-gang mounting, with one HDMI and one VGA plus audio input, a separate stereo audio channel on a 3.5 mm connector, Ethernet pass-through, IR receiver pass-through, and USB pass-through. The USB port is configurable to host or device. HDMI signals up to 4K/UHD@60(YUV 4:2:0 color sub-sampling), VGA input signals up to 1920 x 1200, embedded audio, and control signals can be extended up to 328 feet (100 meters). A micro-USB connector located under the 2-gang cover plate is used to configure the unit.

The USB 2.0 pass-through provides a solution for users who want to control or monitor a remote server or connect to an electronic whiteboard. An additional analog audio pass-through allows distribution of a separate stereo audio source to the receiver side. The Ethernet pass-through provides a convenient network drop for PC's or other equipment. The IR receiver pass-through allows control of remotely located equipment at the receiver side of the system.

The HD-HPCUWP-Tx wall plate can be the central component of a small, automated AV system. Automatic display control via CEC or RS-232 turns on the display whenever a source is connected. When the source is removed, the display is turned off. Automatic input selection on the wall plate works by detecting the presence of any video signal. With automatic input selection, manual control systems can be eliminated. The HD-HPCUWP-Tx is normally powered by a receiver unit having 48V PoH such as the HD-HU-SP-Rx (sold separately), but a local 12 volt power input screw terminal connector is provided for additional flexibility.

FEATURES

- *HDMI or VGA with stereo audio input selection via manual push-button, or auto switching*

- *Independent analog stereo audio input channel providing an independent analog audio output channel at the HDBaseT Receiver*

- *Display Auto-power feature via CEC or RS-232*

- *Manual override switches for source selection and display power*

- *4Kx2K@60Hz (YUV 4:2:0 color sub-sampling) and 1080P@60Hz output up to 100m via Cat 6/6a/7 cable*

- *4Kx2K@60Hz (YUV 4:2:0 color sub-sampling) output up to 90m, and 1080P@60Hz up to 100m Via Cat 5e cable*

- *HDMI with 4k@60Hz (Chroma sub-sampling 4:2:0 8-bit only) and HDCP 2.2 compliance*

- *Supports Long Reach Mode, extending 1080p@60Hz signals to 150m via the API command interface.*

- *High-speed USB 2.0, up to 480Mbps, over HDBaseT up to 100m*

- *2-Gang Decora wall plate*

- *Ethernet and IR pass-through over HDBaseT 2.0*

- *PoH support or powered locally*

- *Firmware upgrade and device configuration via Micro USB for easy field service (located under 2-gang cover plate)*

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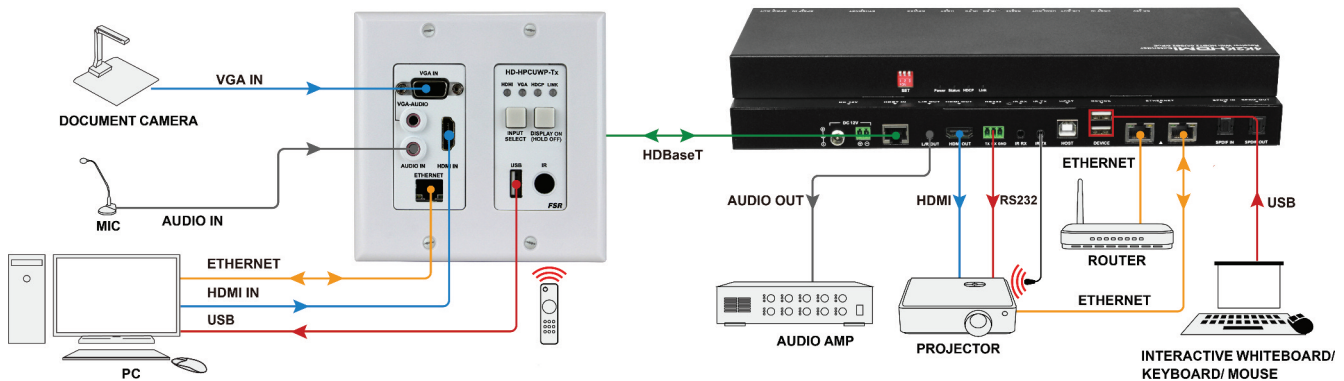*Web: www.fsrinc.com · E-mail: sales@fsrinc.com*

SPECIFICATIONS

VIDEO	
Input	1 x VGA IN 1 x HDMI IN
Input Signal Type	HDMI with HDCP2.2
Input Resolution Support	VGA: 800x600[8], 1024x768[8], 1280x720[8], 1280x800[8], 1280x960[8], 1280x1024[8], 1360x768[8], 1440x900[8], 1600x900[8], 1600x1200[8], 1680x1050[8], 1920x1080[8], 1920x1200[8] HDMI: 800x600[8], 1024x768[8], 1280x720[8], 1280x768[8], 1280x800[8], 1280x960[8], 1280x1024[8], 1360x768[8], 1366x768[8], 1440x900[8], 1600x900[8], 1600x1200[8], 1680x1050[8], 1920x1080[8], 1920x1200[8], 2560x1440[8], 2560x1600[8], 3840x2160P[2,3,5,8(YUV4:2:0)], 4096x2160P[2,3,5,8(YUV4:2:0)] 2 = at 24 Hz, 3 = at 25 Hz, 5 = at 30 Hz, 8 = 60 Hz
Input Video Level	0.5~1.0Vp-p
Maximum Pixel Clock	297MHz
Output	1 x HDBT
Output Signal Type	HDBT
Output Resolution Support	800x600[8], 1024x768[8], 1280x720[8], 1280x768[8], 1280x800[8], 1280x960[8], 1280x1024[8], 1360x768[8], 1366x768[8], 1440x900[8], 1600x900[8], 1600x1200[8], 1680x1050[8], 1920x1080[8], 1920x1200[8], 2560x1440[8], 2560x1600[8], 3840x2160P[2,3,5,8(YUV4:2:0)], 4096x2160P[2,3,5,8(YUV4:2:0)] 2 = at 24 Hz, 3 = at 25 Hz, 5 = at 30 Hz, 8 = 60 Hz
Video Impedance	100ohms

AUDIO	
Audio Input	1 x unbalanced stereo 3.5mm mini jack, binding with VGA input; 1 x independent unbalanced stereo 3.5mm mini jack
Supported Audio Format	**HDMI:** Stereo, LPCM 5.1, LPCM 7.1; Dolby True HD, DTS-HD Master Audio **Unbalanced mini jack:** Stereo

GENERAL	
Operating Temperature	0 to + 45°C (32 to + 113 °F)
Storage Temperature	-20 to +70°C (-4 to + 158 °F)
Humidity	10% to 90%, non-condensing
Power Supply	DC 12V/PoH
Power Consumption	7 W (Max)
Device Dimension	3.6W" x 4.18H" x 1.7D" (overall) 3.6W" × 2.72H"× 1.5D" (rear dimensions)
Product Weight	0.18kg
Certification	CE, FCC

CABLE SPECIFICATIONS
Note: FSR recommends use of straight-through Category cables wired to T568B standard.

CABLE TYPE	RANGE	SUPPORTED VIDEO
Cat5e	90m 100m	4Kx2K@60Hz (YUV 4:2:0 color sub-sampling) 1080P@60Hz
Cat6/6a/7	100m	4Kx2K@60Hz (YUV 4:2:0 color sub-sampling) 1080P@60Hz

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GREEN

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