

# VEX-X5102TR-B1F

UHD<sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/USB 2.0 HUB



This Transceiver is a brand new meaning of transceiver, which able to transmit and receive signal at the same time, there's no need to configure transmitter/receiver anymore. The unit is designed for high-quality, AV extension with minimum latency through point to point IP transmit. With ultra-light compression scheme (lossless for most content) to extending, 4K audio/video streams (HDMI or DisplayPort) with simultaneous transmitter and receiver Video, and data under 0.1 milliseconds of matrix switch-like end to end transit. Full suite of peripherals supported, including 1G Ethernet, RS232, IR and USB 2.0 hub equipped. The integrated USB hub of each Transceiver can be configured to be in USB Host or Device Mode and can function as a simple point to point KVM extension, freely routed between any two endpoints, or it can be configured into a special "Simultaneous" mode, allowing up to 4 Host Mode Transceivers to extend their USB ports to a single Device Mode Transceiver.

## PANELS



Front View

Rear View

## FEATURES

- Point to point extension of audio, video, Gigabit Ethernet, USB and control signals
- Zero latency transmission for all signal types
- Broadcast quality scaler, programmable to scale up or down any resolutions up to 4K
- Audio down-mixing engine from multi-channel PCM audio to stereo
- Colour space conversion and frame rate conversion
- Ultra-light compression, lossless for most content
- Extension up to 30km (maximum distance depends on the SFP+ module and type of fiber used)
- Supports the use of an external control center or control software to provide expanded functionality

## SPECIFICATIONS

### Interfaces

<b>Input Port</b>	1 HDMI (Type A) 1 DisplayPort(Female) 1 Analog(3.5mm)
<b>Output Port</b>	1 HDMI (Type A) 1 Analog(3.5mm)
<b>Bi-directional Port</b>	1 10GbE LAN (SFP+)
<b>Control I/O</b>	1 Ethernet (RJ-45) 1 IR Extender (3.5mm) 1 IR Blaster (3.5mm) 1 RS-232 (3-pin terminal block) 1 USB (Mini-B) 2 USB(Type A)

### Video

<b>HDMI Compliance</b>	HDMI 2.0 (DVI 1.0)
<b>HDCP Compliance</b>	2.x
<b>Input Signal Types</b>	4096x2160p@60 8bit YUV 4:4:4
<b>Output Signal Types</b>	4096x2160p@60 8bit YUV 4:4:4

### Resolutions

<b>Maximum Input</b>	HDMI	4096x2160p@60 YUV 4:4:4
	DP	4096x2160p@60 YUV 4:4:4
<b>Maximum Output</b>	SFP+ (Streaming)	4096x2160p@60 YUV 4:4:4
	HDMI	4096x2160p@60 YUV 4:4:4

### Audio

<b>HDMI</b>	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
<b>DP</b>	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
<b>SFP+</b>	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
<b>Line In</b>	1 Vrms S/N Ratio: > 80dB (1kHz with 0dBFS)
<b>Line Out</b>	1 Vrms S/N Ratio: > 80dB (1kHz with 0dBFS)

### Power

<b>Power Supply</b>	12V/3A DC (Locking)
<b>Power Consumption</b>	18.51W

### Enclosure

<b>Chassis Material</b>	Metal (Steel)
<b>Chassis Color</b>	Black
<b>Dimensions (W×H×D)</b>	231.5mm×25mm×158mm [Case Only] 231.5mm×25mm×167mm [All Inclusive]
<b>Weight</b>	916g

### Field Firmware Update

PC

## ORDERING INFORMATION

Model No.	Product Description
<b>VEX-X5102TR-B1F</b>	UHD <sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/USB 2.0 HUB
<b>VEX-X5101TR-B1F</b>	UHD <sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/HID USB

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## DIAGRAM

