

VEX-X5102TR-B1C

UHD+ 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
- Full range of formats including 4K60 RGB/4:4:4, HDR10, 3D and broadcast-friendly 4K60 10-bit 4:2:2
- 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 100m
- Simultaneous video transmit and receive functionality
- Supports pass-through of 10/12-bit HDR sources
- Analog stereo audio extension, insertion and extraction (insertion and extraction requires optional control center or control software)
- Simultaneously transmission and receive.
- Signal transmission interfaces with 10-Gigabit Ethernet switches via XFI (IEEE 802.3ae) compatible 10-Gigabit Ethernet connector
- Basic configuration via front panel buttons with an On-Screen Display (OSD)
- Supports the use of an external control center or control software to provide expanded functionality

SPECIFICATIONS

Interfaces

Input Port	1 HDMI (Type A) 1 DisplayPort(Female) 1 Analog(3.5mm)
Output Port	1 HDMI (Type A) 1 Analog(3.5mm)
Bi-directional Port	1 10GbE LAN (RJ45)
Control I/O	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

HDMI Compliance	HDMI 2.0 (DVI 1.0)
HDCP Compliance	2.X
Input Signal Types	4K@60 YUV 4:4:4
Output Signal Types	4K@60 YUV 4:4:4

Resolutions

Maximum Input	HDMI	4096×2160p@60 YUV 4:4:4
	DP	4096×2160p@60 YUV 4:4:4
Maximum Output	10G LAN (Streaming)	4096×2160p@60 YUV 4:4:4
	HDMI	4096×2160p@60 YUV 4:4:4

Audio

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

Power

Power Supply	12V/3A DC (Locking)
Power Consumption	TBD

Enclosure

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

Field Firmware Update

PC

ORDERING INFORMATION

Model No.	Product Description
VEX-X5102TR-B1C	UHD+ 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/USB 2.0 HUB
VEX-X5101TR-B1C	UHD+ 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/HID USB

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DIAGRAM

