VEX-X5101TR-B1F

UHD+ 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/HID USB

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 HID USB. Supporting all HDMI 2.0 formats including multichannel PCM, Dolby True HD and DTS HD master audio.

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
- Ultra-light compression, lossless for most content
- Extension up to 30km (maximum distance depends on the SFP+ module and type of fiber used)
- 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 (SFP+)
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	4096x2160p@60 8bit YUV 4:4:4	
Output Signal Types	4096x2160p@60 8bit 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	SFP+ (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	18.51W

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-X5101TR-B1F	UHD+ 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/HID USB
VEX-X5102TR-B1F	UHD+ 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/USB 2.0 HUB

DIAGRAM