

# AVIP-P5101TR-B1C

UHD<sup>+</sup> 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 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



## FEATURES

- Compatible with previous products, such as CH-V502TR and COH-TR7.
- Full range of formats including 4K60 RGB/4:4:4, HDR10, 3D and broadcast-friendly 4K60 10-bit 4:2:2
- Support standard HID USB function
- Zero latency transmission for all signal types
- Broadcast quality scaler, programmable to scale up or down any resolutions up to 4K
- Video wall image splitting with bezel correction
- 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

<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 (RJ45)
<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>	4K@60 YUV 4:4:4
<b>Output Signal Types</b>	4K@60 YUV 4:4:4

### Resolutions

<b>Maximum Input</b>	HDMI	4096×2160p@60 YUV 4:4:4
	DP	4096×2160p@60 YUV 4:4:4
<b>Maximum Output</b>	10G LAN (Streaming)	4096×2160p@60 YUV 4:4:4
	HDMI	4096×2160p@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>10GbE LAN</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>	TBD

### 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>AVIP-P5101TR-B1C</b>	UHD <sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/HID USB
<b>AVIP-P5102TR-B1C</b>	UHD <sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/USB 2.0 HUB
<b>AVIP-P5102TR-B1F</b>	UHD <sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/USB 2.0 HUB
<b>AVIP-P5101TR-B1F</b>	UHD <sup>+</sup> 2x1 HDMI/DP to HDMI Bi-directional AV over IP Transceiver W/HID USB
<b>CH-V502TR</b>	UHD <sup>+</sup> HDMI/USB AV over IP Transceiver
<b>COH-TR7</b>	UHD <sup>+</sup> HDMI/DP/USB AV over IP Transceiver

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## DIAGRAM

