CH-U331TR

HDMI/DP UHD AV OVER IP Transceiver with USB/KVM Extension

- Supports USB keyboard, mouse and storage extension
- Supports IR and RS-232 bypass
- Device has an info OSD and can be controlled via WebGUI, Telnet, and front panel controls
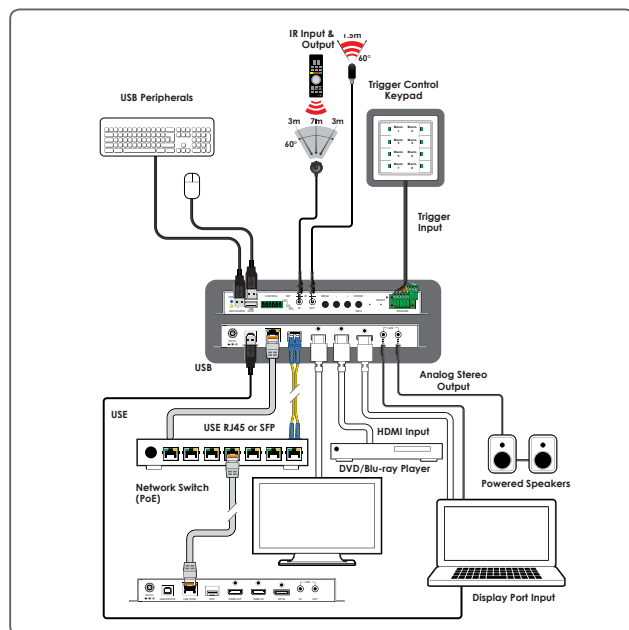
The Dual-Format 4K UHD AV over IP Transceiver are innovation design of integrate Transmitter and Receiver into one unit; user could able to switch unit into Transmitter or receiver by the needs.

The Transceiver supports the transmission of Ultra High-Definition signals (up to 4K@30Hz, 4:4:4 or 4K@60Hz, 4:2:0) with audio and USB up to 100 meters on a single cable. The transmission distance can be further extended (up to 100 meters per segment) by using gigabit network switches, or using SFP fiber cable to extend (up to 550m~2km, depends on the Fiber module that been used), allowing the user to cascade the system without signal loss or introducing delay. It is also possible to have the Transmitter operate in multicast mode, allowing you to send a single AV signal to a large number of Receivers within the same local network.

PANELS

Front View

Rear View

DIAGRAM

FEATURES

- HDMI 2.0 and DVI 1.0 compatible
- HDCP 1.4 & 2.2 compliant
- 1 HDMI input, 1 DP input & 1 HDMI output
- Video, audio, and control transmission over TCP/IP in Unicast (point-to-point) or Multicast (single-to-many) modes
- HDMI input resolutions up to 4K@60Hz (4:2:0, 8-bit) or 4K@30Hz(4:4:4, 8-bit)
- HDMI output resolutions up to 4K@30Hz (RGB, 8-bit)
  Note: 4K@50/60Hz (4:2:0) sources are automatically converted to 4K@25/30Hz (RGB) for output.
- Supports pass-through of audio formats including LPCM 2.0/5.1/7.1,and Bitstream over HDMI
- The analog Line In sends audio directly to the analog Line Out and is inserted into the HDMI output
- Unit may powered directly by PoE when connected to a Gigabit Ethernet switch that provides PoE (802.3af)

SPECIFICATIONS

Interfaces

Input Ports	1 HDMI (Type-A) 1 DisplayPort 1 Unbalanced Stereo (3.5mm)
Output Port	1 HDMI (Type-A)
Bidirectional Port	1 SFP 1 Cat.5e/6/7 (LAN)
Control Port	1 control [terminal block] 8 trigger [terminal block, Ox4, lx4] 2 USB Type-A 1 USB Type-B 1 IR Extender [3.5mm] 1 IR Blaster [3.5mm]

Video

Input Signal Types	HDMI to 4K30 DP to 4K30 Analog		
Output Signal Types	HDMI to 4K30 Analog		
Input Color Depth	8-bit, 10-bit, 12-bit		
Output Color Depth	8-bit		
HDCP Compliance	1.x, 2.2		
		Resolutions	**Bandwidth**
Maximum Input	HDMI	4096×2160p@60 (YUV420)	10.2Gbps
	DP	4096×2160p@60Hz (YUV 4:2:0)	10.2Gbps
Maximum Output	HDMI	4096×2160p@60Hz (YUV 420)	10.2Gbps

Note: Bandwidth values represent the maximum supported by the interface. Processable signal maximums may be lower.

Audio

Input Signal Types	HDMI	Unbalanced Stereo
Output Signal Types	HDMI	
Digital Formats	HDMI	2CH LPCM, 8CH LPCM, Standard Bitstream

Power

Power Supply	5V/4A
Power Consumption	22.22W (Full load)

Enclosure

Chassis Material	Metal
Chassis Color	Black
Dimensions (W×H×D)	231.5mm×25mm×108mm (W×H×D) [Case Only] 231.5mm×25mm×117mm (W×H×D) [All Inclusive]
Weight	666g

Field Firmware Update

PC Update, WebGUI

ORDERING INFORMATION

Recommended Products

CDPS-CS7	IP Master Controller
CH-U331TX	HDMI/VGA over IP Transmitter with USB/KVM Extension
CH-U331RX	HDMI/VGA over IP Receiver with USB/KVM Extension
CH-331H-TX	HDMI over IP Transmitter
CH-331H-RX	HDMI over IP Receiver