

# CH-1604TXD

## UHD+ HDMI over HDBaseT Transmitter with HDR/USB

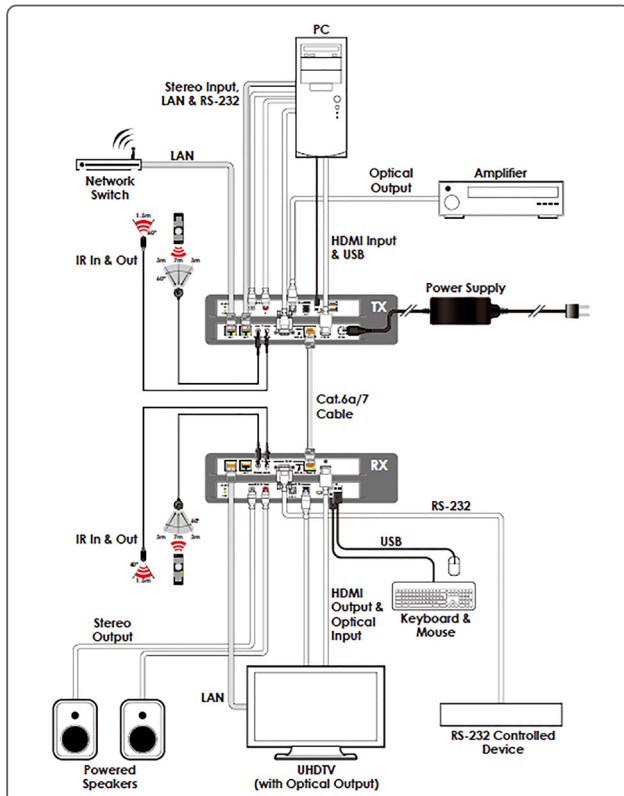


This HDBaseT 2.0 Transmitter and Receiver set provides for the extension of 4K video with HDR and high bitrate audio over a single Cat.6a/7 cable at distances of up to 100 meters (328 feet). This extender set complies with the advanced HDCP 2.2 and HDMI 2.0 standards, as well as supporting the legacy HDCP 1.x and HDMI 1.x standards. Through the use of the highly efficient, and visually lossless, DSC compression scheme, high bandwidth signals, previously unsupported by HDBaseT, such as 4K@60Hz (4:4:4, 8-bit) or 4K@24Hz (4:4:4, 12-bit, HDR) can be extended without visual compromise or additional latency! These extenders can also pass RS-232, IR, Ethernet, and multiple audio streams across the same cable that carries the video signal. This system also allows for the extension of USB signals between any standard USB host (such as a PC or laptop) on one side to up to 2 USB ports on the other side. This both extends the USB port while simultaneously providing USB hub functionality making this an ideal KVM solution when the PC is housed in a distant control room, or secure server room. The 48V PoH (Power over HDBaseT) design can power the Receiver (PD) from the Transmitter (PSE), eliminating the need for a separate power supply for the Receiver.

### PANELS



### DIAGRAM



### FEATURES

- Simultaneous transmission of video, audio and data over a single Cat.6/7 cable up to 100 meters (328 feet)
- HDBaseT feature support: HD Video and Audio, 100BaseT Ethernet, USB 2.0, 48V PoH and Control (Bi-directional IR/RS-232 pass-through)
- RS-232 baud rates up to 115200bps are supported
- Supports pass-through of audio formats including LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream via HDMI
- Supports bi-directional pass-through of digital optical audio formats including LPCM 2.0 at audio sampling rates up to 48kHz, and Bitstream via Optical (S/PDIF) connections
- Supports pass-through of analog stereo audio from the Transmitter to the Receiver via stereo RCA connections
- 2 USB Type A ports and 1 USB Mini B (on Transmitter and Receiver) for extension of USB devices including mice, keyboards, webcams or digital storage
- Supports standard 48V PoH from Transmitter (PSE) to Receiver (PD) (compatible Receivers only)

### SPECIFICATIONS

#### Interfaces

<b>Input Port</b>	1 HDMI (Type-A) 1 S/PDIF (TOSLINK) 1 Stereo (2×RCA)
<b>Output Port</b>	1 HDBaseT (RJ-45) 1 S/PDIF (TOSLINK)
<b>Pass-through Ports</b>	1 IR Extender (3.5mm) 1 IR Blaster (3.5mm) 2 LAN (RJ-45) 1 USB (Mini-B) 2 USB (Type-A)
<b>Pass-through/Control Port</b>	1 RS-232 (DE-9)

#### Video

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

#### Resolutions

<b>Maximum Input</b>	HDMI	4096×2160p@60
<b>Maximum Output</b>	HDBaseT	4096×2160p@60

#### Power

<b>Power Supply</b>	24V/2.7A DC(US/EU standards, CE/FCC/UL certified)
<b>Power Consumption</b>	19W

#### Enclosure

<b>Chassis Material</b>	Metal
<b>Chassis Color</b>	Black
<b>Dimensions (W×H×D)</b>	231.5mm×25mm×108mm [Case Only] 231.5mm×25mm×120mm [All Inclusive]
<b>Weight</b>	700g

#### Field Firmware Update

PC

### ORDERING INFORMATION

<b>Model No.</b>	Product Description
<b>CH-1604TXD</b>	UHD+ HDMI over HDBaseT Transmitter with HDR/USB
<b>CH-1604RXD</b>	UHD+ HDMI over HDBaseT Receiver with HDR/USB