

CH-1605TXV

UHD+ HDMI over HDBaseT Transmitter with HDR/ARC

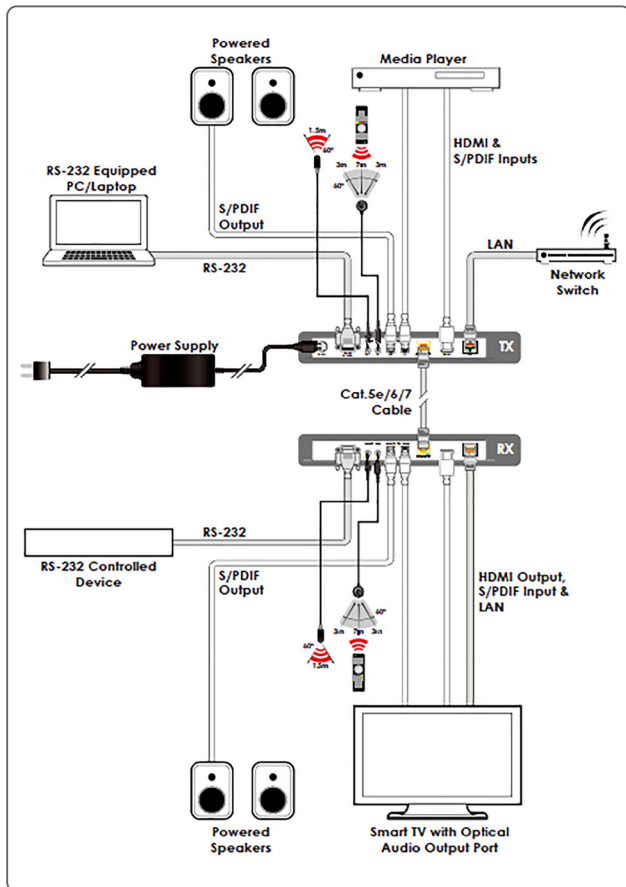


This HDBaseT 2.0 Transmitter provides for the extension of 4K video with HDR and high bitrate audio over a single Cat.6a/7 cable at distances of up to 100m (328 feet). This Transmitter complies with the advanced HDCP 2.2 and HDMI 2.0 standards, as well as supporting the legacy HDCP 1.x and HDMI 1.x standards. Despite HDBaseT's 10.2Gbps bandwidth limitation, 4K UHD HDMI video sources, up to and including 4K@60Hz (4:4:4, 8-bit) as well as 10/12-bit sources with HDR, are able to be processed and extended by the use of AVLC (Adaptive Visually Lossless Compression) when connected to a compatible AVLC Receiver. This transmitter can also pass RS-232, IR, Ethernet, and multiple audio streams across the same cable that carries the video signal. The bi-directional optical audio feature allows optical audio to be exchanged bi-directionally between the Transmitter and Receiver. Rounding out the feature set is automatic HDBaseT clock stretching and TMDS re-clocking support. The 48V PoH (Power over HDBaseT) feature allows a compatible connected Receiver to be powered directly by the Transmitter, eliminating the need for a separate power supply for the Receiver.

PANELS



DIAGRAM



FEATURES

- Supports CEC bypass
- HDBaseT output transmits video, audio and data over a single Cat.5e/6/7 cable and can reach distances up to 100m/328ft at 4K when using Cat.6a/7
- HDBaseT feature support: HD Video and Audio, 100BaseT Ethernet, 48V PoH (PSE), bi-directional optical audio and Control (bi-directional IR/RS-232 pass-through)
- Integrated AVLC (Adaptive Visually Lossless Compression) activates when the bandwidth requirements of the source are beyond 10.2Gbps (340MHz) allowing for sources up to 18Gbps (600MHz) to be sent to a compatible Receiver with no loss of visual quality
- The AVLC feature allows manual selection between High Quality Mode (Full bandwidth) and Standard Mode (Lower bandwidth, useful for longer cable runs with 4K sources)
- Bi-directional optical audio extension support
- Supports standard 48V PoH from Transmitter to Receiver (compatible Receivers only)
Note: The 48V PoH function is designed for powering compatible Receiver units only. Non-PoH Receivers will need their own power supply. Receivers from other brands may not be compatible.

SPECIFICATIONS

Interfaces

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

Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)
HDCP Compliance	2.x
Input Signal Type	4K@60 8bit YUV 4:4:4, HDR
Output Signal Type	4K@60 8bit YUV 4:4:4, HDR

Resolutions

Maximum Input	HDMI	4096×2160p@60
Maximum Output	HDBaseT	4096×2160p@60

Power

Power Supply	24V/2.7A DC (US/EU standards, CE/FCC/UL certified)
Power Consumption	5W

Enclosure

Chassis Material	Metal (Steel)
Chassis Color	Black
Dimensions (W×H×D)	231.5mm×25mm×108mm [Case Only] 231.5mm×25mm×115mm [All Inclusive]
Weight	640g

Field Firmware Update

PC

ORDERING INFORMATION

Model No.	Product Description
CH-1605TXV	UHD+ HDMI over HDBaseT Transmitter with HDR/ARC
CH-1605RXV	UHD+ HDMI over HDBaseT Receiver with HDR/ARC