CH-1527TXV
4K HDR HDMI over HDBaseT Transmitter with IR, RS-232, PoH (PSE) & LAN

INTRODUCTION

This Transmitter is a great solution for extending UHD video and audio as well as Ethernet and control via a single run of Cat.5e/6/7 cable over distances up to 100 meters. 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 needed. Multiple data and control interfaces are also provided, including IR, RS-232 and LAN connections. This Transmitter (PSE) can provide 48V PoH (Power over HDBaseT) to a compatible Receiver (PD), allowing for greater flexibility within different installation scenarios.
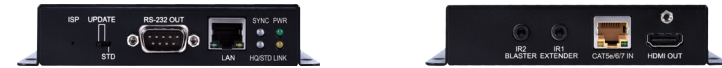
FEATURES

• HDMI with HDR, 3D & 4K@60Hz support, DVI 1.0 compatible
• HDCP 2.2 and HDCP 1.x compliant
• Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output
• Supports Deep Color input and output up to 12-bit
• Supports 10-bit and 12-bit HDR (High Dynamic Range) input/output
• Supports CEC bypass
• Simultaneous transmission of uncompressed video, audio and data over a single Cat.5e/6/7 cable up to 100m/328ft at 1080p and 70m/230ft at 4K
• HDBaseT feature support: HD Video and Audio, 100BaseT Ethernet, 48V PoH, and Control (bidirectional 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)
• Supports standard 48V PoH from Transmitter (PSE) to Receiver (PD) (compatible Receivers only)

HDCP 2.2	4K60 4:4:4	HDR 4K	AVLC 4K 70m	PSE 48V PoH

CH-1527RXV
4K HDR HDMI over HDBaseT Receiver with IR, RS-232, PoH (PD) & LAN

INTRODUCTION

This Receiver is a great solution for extending UHD video and audio as well as Ethernet and control via a single run of Cat.5e/6/7 cable over distances up to 100 meters. This Receiver 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 needed. Multiple data and control interfaces are also provided, including IR, RS-232 and LAN connections. This Receiver (PD) is powered by 48V PoH (Power over HDBaseT) from a compatible Transmitter (PSE), allowing for greater flexibility within different installation scenarios.

FEATURES

• HDMI with HDR, 3D & 4K@60Hz support, DVI 1.0 compatible
• HDCP 2.2 and HDCP 1.x compliant
• Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output
• Supports Deep Color input and output up to 12-bit
• Supports 10-bit and 12-bit HDR (High Dynamic Range) input/output
• Supports CEC bypass
• Simultaneous reception of uncompressed video, audio and data over a single Cat.5e/6/7 cable up to 100m/328ft at 1080p and 70m/230ft at 4K
• HDBaseT feature support: HD Video and Audio, 100BaseT Ethernet, 48V PoH, and Control (bidirectional IR/RS-232 pass-through)
• Support for compatible AVLC (Adaptive Visually Lossless Compression) Transmitters, allowing for the output of HDMI sources that were originally beyond 10.2Gbps (340MHz) and up to 18Gbps (600MHz) with no loss of visual quality
• Powered by standard 48V PoH from Transmitter (PSE) to Receiver (PD) (compatible Transmitters only)

HDCP 2.2	4K60 4:4:4	HDR 4K	AVLC 4K 70m	PD 48V PoH

For more information, go to **www.cypress.com.tw**

HDBaseT 1.0 Extenders Introducing AVLC Technology

SPECIFICATIONS	CH-1527TXV	CH-2527TXV	CH-1527RXV	CH-2527RXV
Input Port	1×HDMI	1×HDMI	1×HDBaseT (RJ45)	1×HDMI
Output Port	1×HDBaseT (RJ45)	1×HDBaseT (RJ45)	1×HDMI	1×HDBaseT (RJ45)
Pass-through Ports	1×IR Extender (3.5mm) 1×IR Blaster (3.5mm) 1×RS-232 (DE-9) 1×LAN (RJ45)	1×IR Extender (3.5mm) 1×IR Blaster (3.5mm) 1×RS-232 (DE-9) 1×LAN (RJ45)	1×IR Extender (3.5mm) 1×IR Blaster (3.5mm) 1×RS-232 (DE-9) 1×LAN (RJ45)	1×IR Extender (3.5mm) 1×IR Blaster (3.5mm) 1×RS-232 (DE-9)
Power Supply	48V/0.83A	PoH	PoH	48V/0.83A
Dimensions	128mm×25mm×108mm (W×H×D) [Case Only] 128mm×25mm×117mm (W×H×D) [All Inclusive]	128mm×25mm×108mm (W×H×D) [Case Only] 128mm×25mm×117mm (W×H×D) [All Inclusive]	128mm×25mm×108mm (W×H×D) [Case Only] 128mm×25mm×117mm (W×H×D) [All Inclusive]	128mm×25mm×108mm (W×H×D) [Case Only] 128mm×25mm×117mm (W×H×D) [All Inclusive]
Weight	385g	385g	386g	386g

Product Selection Guide

HDBaseT FEATURES	CH-1527TXV	CH-1527TXPLV	CH-2527TXV	CH-2527TXPLV	CH-1527RXV	CH-1527RXPLV	CH-2527RX	CH-2527RXPLV
HD Video & Audio	✓	✓	✓	✓	✓	✓	✓	✓
IR/RS-232 pass-through	✓	✓	✓	✓	✓	✓	✓	✓
LAN pass-through	✓	–	✓	–	✓	–	✓	–
Send power to Receiver	✓	✓	–	–	–	–	–	–
Accept power from Receiver	–	–	✓	✓	–	–	–	–
Send power to Transmitter	–	–	–	–	–	–	✓	✓
Accept power from Transmitter	–	–	–	–	✓	✓	–	–
Cat.5e/6 Cable Length	100m@1080p 70m@4K HDR	70m@1080p 35m@4K HDR	100m@1080p 70m@4K HDR	70m@1080p 35m@4K HDR	100m@1080p 70m@4K HDR	70m@1080p 35m@4K HDR	100m@1080p 70m@4K HDR	70m@1080p 35m@4K HDR

A/V, ETHERNET, CONTROL & POWER

OVER A SINGLE CAT. CABLE

For more information, go to **www.cypress.com.tw**