



Transmitter shown in RCIXT100-TXUHBX-S-CL

Features

- Extends HDMI or DVI video up to 500 ft on just one Cat6
- RS232 and IR extension in both directions with optional add-on
- Supports all HDMI or DVI resolutions including 4K (UHD)
- Wall plate does not need power connection (powered via UTP)
- Power-over-HDBaseT™ (PoH) meets IEEE 802.3af standard
- Fully compatible with HDBaseT™ standard
- RS232 supports baud rates to 115K
- IR extension meets all standards regardless of format or frequency
- Fully isolates ground between TX and RX sides
- Locking HDMI input connector
- Device may be mounted to any RCI custom wallplate, panel or modular insert
- Made in USA

TXUHBX-S

The TXUHBX-S is an HDMI on Cat6 (HDBaseT) single gang wall plate HDMI Transmitter.

The TXUHBX-S fits in a single gang style wall plate and is capable of sending a video signal to a compatible receiver (receiver model RXUHBX-R-PSE) to a maximum of 150 meters (500 ft) using a single Cat6 cable (Receiver type determines the max distance that can be 70m, 100m, or 150m).

The wall plate is powered through the Cat6 cable eliminating the need for a separate power supply connection. The wall plate conforms to HDBaseT™ power standard (PoH or IEEE802.3af), making it compatible with any certified HDBaseT™ power sourcing equipment. The wall plate sender may be connected to projectors or TVs that have direct HDBaseT™ inputs. In this case no external receiver would be needed, however, a PoH inserter will be required (Hall Research model 511-POH-17W).

This extender can be used with receivers listed below depending on the required distance:

- RXUHBX-R-PSE - 500 ft (150m)
- RXUH-1BT - 230 ft (70m)

note that the RXUH-1BT requires an included PoH inserter to send power

Specifications

Video Standards:	DVI (single link) and HDMI (compliant with HDMI 1.4 video specifications including 12 bit color depth, 3D video and 4K support)
Signal Type:	TMDS
Connectors:	Locking HDMI input, RJ45 HDBaseT output
Video Resolutions:	DVI: VGA (640x480) to WUXGA (1920x1200) HDTV: 480i to 1080p Digital Cinema: 4K (4096x2160)
Audio Formats:	All HDMI Embedded Audio including: LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio (32-192kHz sample rate) DDC: Pass-Thru DDC for reading EDID directly from remotely connected LCD and HDCP handshake
CEC:	Pass-Thru CEC for Consumer Electronics Control compatible devices
RS232:	Bi-directional (full-duplex) any baud rate upto 115,200
IR:	Extended in both directions. Carrier modulation range from 30 KHz to 60 KHz
PoH:	Power-over-HDBaseT™ meets IEEE 802.3af standard. PD side identifies as Class 2 (3.84-6.49 watts). Actual power consumption of PD side is 5.5 watts max
Power Supply:	100 VAC to 240 VAC, 50-60 Hz, external; 5 VDC, 3.2 A, regulated. Actual DC current (powering both -PSE and -PD sides) 1.8A max
Power:	Sender: 3 watts (10 BTU) maximum
Temp/humidity:	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing Cooling: Convection
Dimensions:	2.6" H x 1.3" W x 1.8" D (66mm H x 33mm W x 46mm D) Depth.
Product weight:	Sender: 5 oz (0.31 lb or 142 g)
Compliance:	CE, FCC Class A
MTBF:	90,000 hours (Calculated Estimate)

Block Diagram

