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HDMI Receiver

RXUHBX-R-PSE

Features

- Extends HDMI or DVI video to 500 ft on just one Cat6
- Includes RS232 and IR extension in both directions
- Supports virtually all HDMI and DVI resolutions including 4Kx2K
- Only one end requires power, other side is powered via UTP
- Power-over-HDBaseT™ meets IEEE 802.3af standard
- Sturdy metal enclosures with mounting provisions
- Complies fully with HDBaseT™ standard
- Runs from just one +5vDC supply
- RS232 Supports all baud rates regardless of presence of video
- Fully isolates ground between TX and RX sides
- Made in USA

Description

RXUHBX-R-PSE receiver module when paired with compatible sender (TXUHBX-S), can extend HDMI, bi-directional IR, full-duplex RS232, and PoH (power over HDBaseT™) over distances of up to 150 meters (500 feet) using a single Cat6 cable. The pair can extend HDMI or single-link DVI video of virtually any resolution, to a maximum distance of 500 ft (150 m). Moreover, these extenders complies with Power-over-HDBaseT™ or PoH, hence only one end requires a power supply . The end identified as PSE (power sourcing equipment) injects power on to the Cat6 cable and the side identified as PD (powered device) is powered through the Cat6 cable. The PSE side requires connection of an AC adapter that supplies 5v DC, while the wall plate side is simply powered through the RJ45 connector from the opposite side.

Full-duplex RS232 Serial Port extension is provided that can operate at any baud rate to 115,200 (independent of video activity). The extender can also extend IR from one end to the other. IR Detector and IR Emitter cables are sold separately. The IR extension preserves the modulation(carrier) frequency and provides compatibility to virtually any standard. It supports modulation range from 30 KHz to 60 KHz.

Two user selectable distance modes are available: Standard(default) and Long Reach. If the length of UTP cable is less than 100 meters (330 ft), then STD mode should be used. For the lengths above 330 ft Long Reach (L.R.) mode must be set. Long Reach setting can extend maximum of 1080p@60 Hz, 8-bit color (does not support deep-color or 4Kx2K) , RS232, IR and Power up to 500ft (150m)

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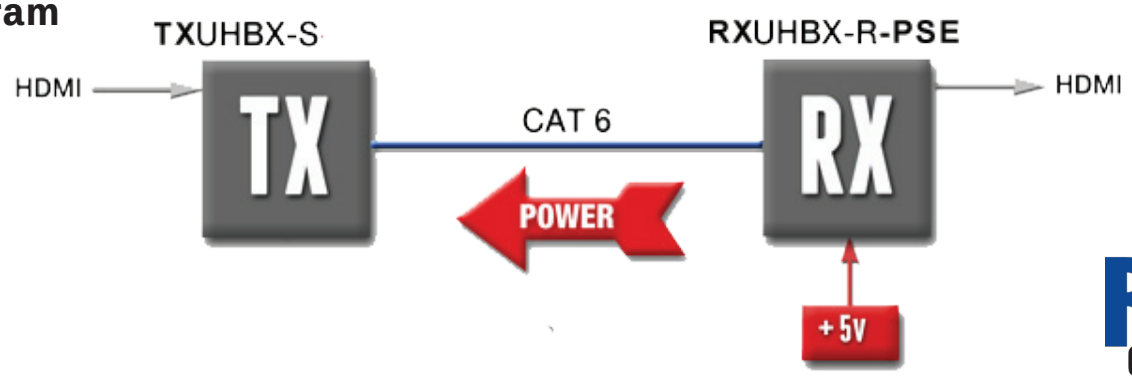
Specifications

Max Distance:	Standard Mode (STD): 330 ft (100m) Long Reach Mode (LR): 500 ft (150m)
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
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 DDC 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 30KHz to 60KHz
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
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: 3.5 watts (12 BTU) maximum
Receiver:	5.5 watts (19 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
Mounting:	End plates have L bracket with hole for surface mounting
Dimensions:	1.18" H x 4.13" W x 4.57" D (30mm H x 105mm W x 116mm D) Depth excludes connectors

Block Diagram



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