DTP HDMI 301

LONG DISTANCE HDMI TWISTED PAIR EXTENDER

- Transmits HDMI plus RS-232 and IR signals over a single CATx cable
- Extends 1080p/60 Deep Color and 1920x1200 up to 330 feet (100 meters)
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Transmits separate analog stereo audio signals
- Bidirectional RS-232 and IR control pass-through
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- Supports EDID and HDCP transmission
- LED indicator for signal presence and power
- RJ-45 signal and link status LED indicator for DTP port
- Compatible with DTP DVI 301
- Fully supports DVI signals when used with optional Extron DVI-HDMI adapters
- 1" (2.5 cm) high, quarter rack width metal enclosures
- Energy-efficient external universal power supply included with Tx models



DTP HDMI 301 Tx



DTP HDMI 301 Rx

The Extron DTP HDMI 301 long-distance HDMI extender sends digital video and embedded audio plus bidirectional control signals up to 330 feet (100 meters) on a single CATx cable. This HDCP-compliant extender set delivers superior image quality by maintaining the digital signal path of HDTV and high resolution computer-video throughout the system.

DESCRIPTION

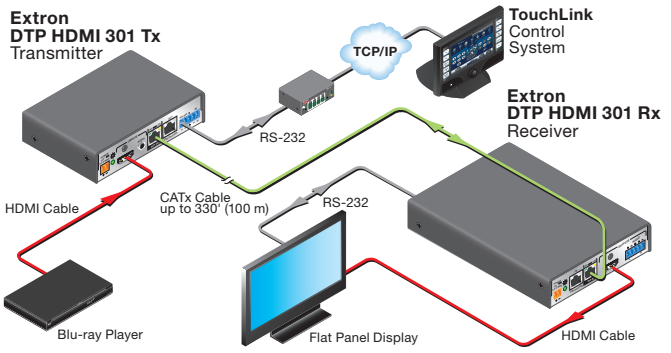
The Extron **DTP HDMI 301** is a transmitter and receiver extender set for long distance transmission of HDMI video and embedded audio plus bidirectional control signals over a single CATx cable. For added flexibility and convenience, separate stereo audio signals can be transmitted via a second twisted pair cable. It is capable of sending 1080p/60 Deep Color signals and 1920x1200 up to 330 feet (100 meters). DDC communication of EDID and HDCP is continuously maintained to ensure direct compatibility and optimal signal transmission between devices.

The transmitter and receiver set supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system, providing remote control to source equipment or displays. Housed in 1" (2.5 cm) high, quarter rack width metal enclosures, the transmitter and receiver may be mixed and matched with the DTP DVI 301 for specific installation needs. The integrator-friendly features, combined with compact enclosure sizes and remote powering of either unit, make the DTP HDMI 301 ideal for extending HDMI digital video, multi-channel audio, and bidirectional control in space-challenged environments over long distances.

FEATURES

- **Transmits HDMI plus RS-232 and IR signals over a single CATx cable**
- **Extends 1080p/60 deep color and 1920x1200 up to 330 feet (100 meters)**
- **Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable**
- **Transmits separate analog stereo audio signals**
- **Extron strongly recommends using shielded twisted pair cabling for optimal performance**
- **Supports DDC transmission**
- **HDCP compliant**
- **Remote powering of transmitter or receiver**

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO

Maximum data rate	6.75 Gbps (2.25 Gbps per color)
Maximum pixel clock	165 MHz
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz; 8, 10, or 12 bit color depth

VIDEO INPUT — TRANSMITTER

Number/signal type	1 single link HDMI (or DVI-D*)

INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

Connectors	2 female RJ-45 per unit for 2 cables connecting the transmitter and receiver TP1 output transmits digital video, embedded digital audio, RS-232, IR, and remote power. TP2 output transmits analog stereo audio.
Signal transmission distance	330' (100 m) using CAT 5e/6/7 UTP or STP cable (24 AWG or better)

VIDEO OUTPUT — RECEIVER

Number/signal type	1 single link HDMI (or DVI-D*)

AUDIO

Gain	Unbalanced output: 0 dB; balanced output +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB

AUDIO INPUT

Number/signal type	1 PC level stereo, unbalanced

AUDIO OUTPUT

Number/signal type	1 stereo (2 channel), balanced/unbalanced

CONTROL/REMOTE

External device (pass-through, unidirectional or bidirectional)	
Serial control port input/output	
Transmitter	RS-232 via (1) 3.5 mm, 5 pole captive screw connector for RS-232 control (±5 V) (connector is shared with IR control port)
Baud rates	Up to 115200 baud
IR control port	(1) 3.5 mm, captive screw connector, 5 pole (connector is shared with RS-232 control port) TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz

GENERAL

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	7.0 watts, 12 VDC, total, for both transmitter and receiver
Enclosure type	Metal
Enclosure dimensions	
Transmitter	1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
Receiver	1.0" H x 4.3" W x 6.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 15.2 cm D) (Depth excludes connectors.)

Model	Version Description	Part number
DTP HDMI 301 Tx	Transmitter	60-1212-12
DTP HDMI 301 Rx	Receiver	60-1212-13

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

Worldwide Sales Offices

Anaheim • Raleigh • Silicon Valley • Dallas • Chicago • New York • Washington, DC • Toronto • Mexico City • Paris • London • Frankfurt
Amersfoort • Moscow • Dubai • Johannesburg • New Delhi • Bangalore • Singapore • Seoul • Shanghai • Beijing • Tokyo

UNITED STATES
+800.633.9876
Inside USA/Canada
+1.714.491.1500

EUROPE
+800.3987.6673
Inside Europe
+31.33.453.4040

ASIA
+800.7339.8766
Inside Asia
+65.6383.4400

MIDDLE EAST
+971.4.299.1800

08-2012
68-2105-01
REV. A3
Letter - English - NP

© 2012 Extron Electronics. All rights reserved. All trademarks mentioned are the property of their respective owners. Prices and specifications subject to change without notice.