

# DTP HDMI 330

## LONG DISTANCE HDMI TWISTED PAIR EXTENDER

- ▶ Transmits HDMI plus control and analog audio up to 330 feet (100 meters) over a single CATx cable
- ▶ Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K
- ▶ Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- ▶ Bidirectional RS-232 and IR control pass-through
- ▶ Accepts additional analog stereo audio signals
- ▶ 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
- ▶ Remote powering of transmitter or receiver
- ▶ UL 2043 Plenum rated receiver
- ▶ 1" (2.5 cm) high, quarter rack width metal enclosures
- ▶ Energy-efficient external universal power supply included with Tx models



The Extron DTP HDMI 330 extender sends HDMI, analog audio, and bidirectional control signals up to 330 feet (100 meters) over 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.



**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

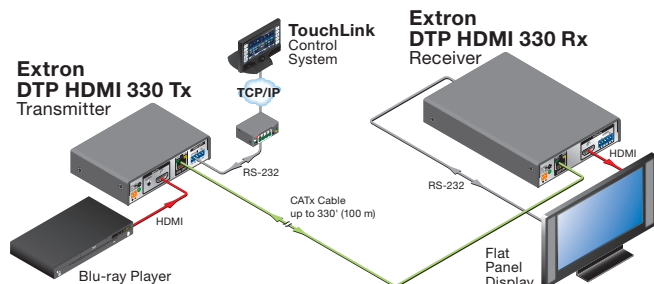
The Extron **DTP HDMI 330** is a transmitter and receiver set for long distance transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 330 accepts separate analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1080p/60 Deep Color, 1920x1200, and 2K signals up to 330 feet (100 meters). The DTP HDMI 330 enables the reliable, long distance transmission of HDMI signals, supporting Deep Color up to 12-bit, CEC, and embedded HD lossless audio formats. In addition, DDC communication of EDID and HDCP is continuously maintained between a source and display, ensuring direct compatibility and optimal signal transmission between devices.

The DTP HDMI 330 can be used as a point-to-point solution or integrated with a switching and distribution system to extend inputs or outputs to remote locations. The twisted pair extender supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system, providing remote control to source equipment or remote displays.

## KEY FEATURES

- ▶ Transmits HDMI plus control and analog audio up to 330 feet (100 meters) over a single CATx cable
- ▶ Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K
- ▶ Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- ▶ Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission
- ▶ Accepts additional analog stereo audio signals
- ▶ 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
- ▶ Remote powering of transmitter or receiver
- ▶ Plenum rated receiver – Meets UL 2043 for heat and smoke release, excluding power supply

## 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	1 female RJ-45 per unit	
Signal transmission distance	Up to 330' (100 m) using CAT 5e/6/6a/7 cable or XTP DTP 24 TP cable	
Cable requirements	Solid conductor, 24 AWG or better	
Cable recommendations	400 MHz bandwidth, STP (shielded twisted pair)	
NOTE: Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.		
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, ±0.5 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	11.0 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 330 Tx	HDMI Transmitter	60-1331-12
DTP HDMI 330 Rx	HDMI Receiver	60-1331-13

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

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