

DTP HDMI 230

HDMI TWISTED PAIR EXTENDER

- ▶ Transmits HDMI plus control and analog audio up to 230 feet (70 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
- ▶ Compatible with all DTP HDMI 230 and DTP DVI 230 models
- ▶ 1" (2.5 cm) high, quarter rack width metal enclosures
- ▶ Energy-efficient external universal power supply included with Tx models



DTP HDMI 230 Tx

DTP HDMI 230 Rx

The Extron DTP HDMI 230 extender sends HDMI, analog audio, and bidirectional control signals up to 230 feet (70 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

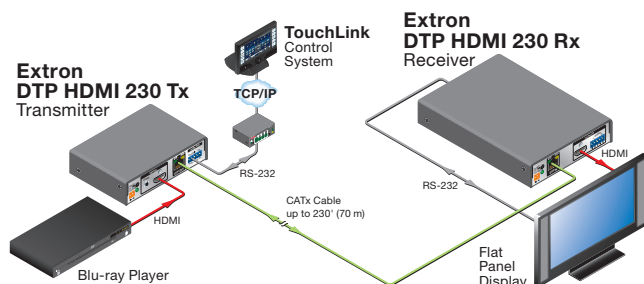
The Extron **DTP HDMI 230** is a transmitter and receiver set for transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 230 accepts separate analog stereo audio signals and digitizes them for simultaneous transmission over the same single twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters). The DTP HDMI 230 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 230 can be used as a point-to-point solution or integrated within HDMI switching and distribution environments 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 230 feet (70 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

NOTE: *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

VIDEO

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

VIDEO INPUT – TRANSMITTER

Connectors	1 female HDMI type A
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INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

Connectors	1 female RJ-45 per unit
Signal transmission distance	Up to 230' (70 m) using CAT 5e/6/6a/7 UTP or STP cable (solid conductor 24 AWG or better)

VIDEO OUTPUT – RECEIVER

Connectors	1 female HDMI type A
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AUDIO INPUT

Number/signal type	1 PC level stereo, unbalanced
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AUDIO OUTPUT

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

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
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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 230 Tx	HDMI Transmitter	60-1271-12
DTP HDMI 230 Rx	HDMI Receiver	60-1271-13

Decora Style

Model	Version Description	Part number
DTP HDMI 230 D Tx	Decora Transmitter - Black	60-1215-12
DTP HDMI 230 D Tx	Decora Transmitter - White	60-1215-13
DTP HDMI 230 D Rx	Decora Receiver - Black	60-1215-22
DTP HDMI 230 D Rx	Decora Receiver - White	60-1215-23

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

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