

# DTP2 T 212

TWO INPUT 4K/60 HDMI SWITCHER  
WITH INTEGRATED DTP2  
TRANSMITTER AND HDMI OUTPUT

**DTP**  
SYSTEMS

**18 Gbps**  
4K/60 4:4:4



The Extron DTP2 T 212 is a two-input transmitter for sending HDMI, audio, and control up to 330 feet (100 meters) over a shielded CATx cable to an Extron DTP®-enabled product. It provides two HDMI inputs, one DTP2 output, and one HDMI output. It supports video resolutions up to 4K/60 at 4:4:4 chroma sampling, and complies with HDCP 2.2. With several integrator-friendly features in a low-profile enclosure, the DTP2 T 212 enables discreet installation in a wide variety of applications.

- ▶ Transmits HDMI plus control and analog audio up to 330 feet (100 meters) over a shielded CATx cable
- ▶ Two HDMI inputs
- ▶ DTP2 output
- ▶ HDMI output - Ideal for connecting a local monitor
- ▶ Supports computer and video resolutions up to 4K/60 @ 4:4:4
- ▶ Auto-switching between inputs
- ▶ Analog stereo audio embedding
- ▶ Supported HDMI 2.0b specification features include data rates up to 18 Gbps, HDR, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- ▶ Support for HDR – High Dynamic Range video
- ▶ HDCP 2.3 compliant
- ▶ Remote power capability
- ▶ Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- ▶ Accepts additional analog stereo audio signals
- ▶ Bidirectional RS-232 and IR pass-through for AV device control
- ▶ Supports multiple embedded audio formats
- ▶ EDID Minder®
- ▶ Compatible with all DTP receivers and DTP-enabled products
- ▶ 1" (2.5 cm) high, half rack width metal enclosure



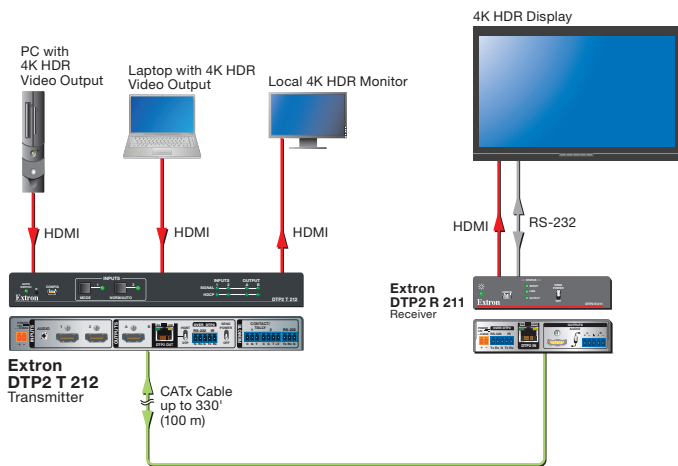
**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **DTP2 T 212** is a two-input transmitter for sending HDMI, audio, and control up to 330 feet (100 meters) over a shielded CATx cable to an Extron DTP-enabled product. It provides two HDMI inputs, one DTP2 output, and one HDMI output. It supports video resolutions up to 4K/60 at 4:4:4 chroma sampling, and complies with HDCP 2.3. Audio embedding and RS-232 remote control facilitate integration in professional environments. Integrator-friendly features include EDID Minder®, auto-switching between inputs, and bidirectional RS-232 and IR pass-through for remote AV device control. The low-profile enclosure enables discreet placement in lecterns, beneath tables, or wherever needed to meet application requirements.

The DTP2 T 212 enables reliable, long distance transmission of HDMI signals at data rates up to 18 Gbps supporting HDR, Deep Color up to 12-bit, 3D, and embedded HD lossless audio formats. Outputs are configurable for simultaneous operation or the HDMI output can be assigned to either HDMI input to support a local monitor. In addition, the DTP2 output can be configured to send video and embedded audio, plus bidirectional RS-232 and IR signals to an HDBaseT-enabled display. DDC communication of EDID and HDCP is continuously maintained between source and display, ensuring compatibility and optimal signal transmission between devices.

## APPLICATION DIAGRAM



## SPECIFICATIONS

### TRUE 4K SPECIFICATION

Max 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
3840 x 2160 at 60 Hz	4:4:4	8 bit
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz	4:2:0	12 bit
4096 x 2160 at 60 Hz		
3840 x 2160 at 60 Hz		

Frame rate <sup>1</sup>	24, 25, 30, 50, or 60 fps
Chroma sampling <sup>1</sup>	4:4:4, 4:2:2, or 4:2:0
Color bit depth <sup>1</sup>	8, 10, or 12 bits per color
Signal type	HDMI 1.4, 2.0b; HDCP 2.3, 1.4
Max. video data rate	18 Gbps (6 Gbps per color)
<b>NOTE:</b> <sup>1</sup> Subject to the maximum data rate limit. Use our calculator at <a href="http://www.extron.com/4Kdata">www.extron.com/4Kdata</a> to determine video parameters supported by this data rate.	

### VIDEO INPUT

Connectors	2 female HDMI type A
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### VIDEO OUTPUT

Connectors	1 local HDMI output, 1 female RJ-45 output
Signal transmission distance	Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 STP cable
<b>NOTE:</b> Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.	

### AUDIO INPUT

Number/signal type	1 PC level stereo, unbalanced 2 Digital Embedded Audio on HDMI
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### COMMUNICATIONS — SWITCHER

Serial control port	1 RS-232, 3.5 mm, 3 pole captive screw connector, rear panel
USB control port	1 female mini USB, type B, front panel
Contact closure/tally output	(1) 3.5 mm captive screw connector, 3-pole (1) 3.5 mm captive screw connector, 4-pole

### COMMUNICATIONS — EXTERNAL DEVICE (RS-232/IR OVER TP)

Quantity/type	(1) RS-232 and IR via (1) 3.5 mm 5-pole captive screw connector
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### GENERAL

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 3 A, 36 Watts
Remote power capability	Supports one endpoint (DTP2 Rx) <b>NOTE:</b> DTP2 devices can only send power to other DTP2 devices. DO NOT send power to DTP devices or they will be damaged.
Enclosure dimensions	1.00" H x 8.75" W x 6.0" D (1 inch high, half rack wide) (2.54 cm H x 22.2 cm W x 7.6 cm D) (Depth excludes connectors.)
Warranty	3 years parts and labor <b>NOTE:</b> All nominal levels are at ±10%.

Model	Version Description	Part number
DTP2 T 212	Two Input 4K/60 HDMI Switcher 330 feet (100 m)	60-1587-52

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

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