

DTP T MK 4K 231

DTP TRANSMITTER FOR MK-TYPE JUNCTION BOXES

DTP
SYSTEMS

4K UHD



The Extron DTP T MK 4K 231 is a compact transmitter for sending HDMI up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP®-enabled products. The DTP transmitter is compatible with standard one-gang MK-type junction boxes for convenient installation in wall mount environments. The HDCP-compliant transmitter features a convenient one-gang form factor that offers maximum placement flexibility.

- ▶ Designed to mount in a one-gang MK-type electrical junction box for the UK, Middle East, Singapore, Hong Kong, and other markets that use MK-type junction boxes
- ▶ Transmits HDMI up to 230 feet (70 meters) over a shielded CATx cable
- ▶ Supports computer and video resolutions up to 4K
- ▶ Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- ▶ DTP® output is compatible with HDBaseT-enabled devices
- ▶ Supports multiple embedded audio formats
- ▶ HDCP 2.2 compliant
- ▶ Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- ▶ Supports EDID and HDCP transmission
- ▶ Remote power capability
- ▶ Compatible with all DTP 230 Series receivers and DTP-enabled products



Extron Electronics
INTERFACING, SWITCHING AND CONTROL

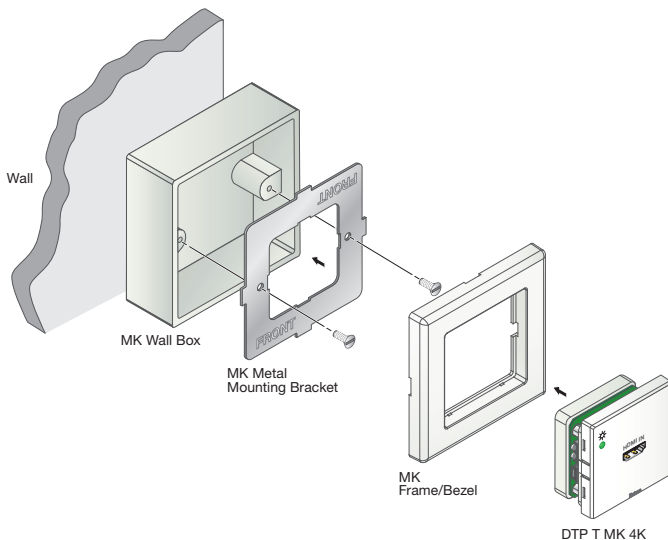
DESCRIPTION

The Extron **DTP T MK 4K 231** is a compact transmitter for sending HDMI signals up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP-enabled products. The transmitter is compatible with standard one-gang MK-type junction boxes for convenient installation in wall mount environments. The DTP T MK 4K 231 supports video signals at resolutions up to 4K. It features a front panel LED indicator for power and signal presence, and compatibility with HDBaseT-enabled devices. Designed for DTP Systems, the DTP T MK 4K 231 can be remotely powered by Extron DTP CrossPoint® matrix switchers or other DTP-enabled products. The one-gang design provides maximum space efficiency and the convenience of placing input connections precisely where they are needed.

KEY FEATURES

- ▶ Designed to mount in a one-gang MK-type electrical junction box for the UK, Middle East, Singapore, Hong Kong, and other markets that use MK-type junction boxes
- ▶ Transmits HDMI up to 230 feet (70 meters) over a shielded CATx cable
- ▶ Supports computer and video resolutions up 4K
- ▶ HDCP 2.2 compliant
- ▶ DTP output is compatible with HDBaseT-enabled devices
- ▶ Remote power capability

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0	8 bit
Frame rate¹	24, 25, 30, 50, or 60 fps	
Chroma sampling¹	4:4:4, 4:2:2, or 4:2:0	
Color bit depth¹	8 bits per color	
Signal type	HDMI 1.4, HDCP 2.2, 2.0, 1.4	
Max. video data rate	10.2 Gbps (3.4 Gbps per color)	
NOTE: ¹ Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdata to determine video parameters supported by this data rate.		

VIDEO INPUT

Connector 1 female HDMI type A

INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

Connector 1 female RJ-45

Signal transmission distance

1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
4K/UHD @ 30 Hz Up to 130' (40 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable

Cable requirements Solid conductor, 24 AWG or better

NOTE: Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.

NOTE: Output mode signaling:

DTP: HDMI with embedded audio and remote power

HDBaseT: HDMI with embedded audio

GENERAL

Power supply External
Input: 100 to 240 VAC, 50-60 Hz
Output: 12 VDC, 1 A, TBD watts

Mounting Mounts to 1-gang MK enclosures.

Enclosure dimensions

Frame 3.39" H x 3.39" W x 0.40" D (1-gang)
(86.0 mm H x 86.0 mm W x 10.1 mm D)
Device module 2.17" H x 2.17" W x 1.52" D
(55.0 mm H x 55.0 mm W x 38.4 mm D)
Fits mounting frames that accept 55 mm x 55 mm modules.
(Allow at least 1.9" [47 mm] in the junction box for device plus cable clearance.)

Regulatory compliance

Safety CE, c-UL, UL
EMI/EMC CE**, C-tick, FCC Class A**, ICES, VCCI
Environmental Complies with the appropriate requirements of RoHS, WEEE.

Model	Version Description	Part number
DTP T MK 4K 231	HDMI MK Tx - 230 feet (70 m)	60-1533-12

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

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