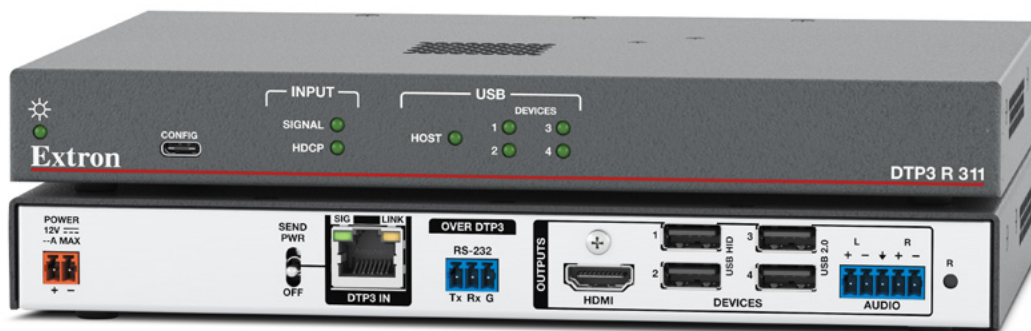


DTP3 R 311

4K/60 DTP3 RECEIVER FOR HDMI AND USB DATA



18 Gbps
4K/60 4:4:4

DTP3
SYSTEMS

The **DTP3 R 311** is a digital twisted pair receiver for extending HDMI, USB 2.0, audio, and bidirectional RS-232 signals up to 230 feet (70 meters) over a shielded CAT 6A cable. It supports video resolutions up to 4K/60 at 4:4:4 color sampling and complies with HDCP 2.3. The receiver features a four-port USB hub and stereo audio de-embedding for convenient installation in professional environments. The low-profile enclosure makes the DTP3 R 311 ideal for discreet placement behind displays, with projectors, or wherever needed in professional environments.

- ▶ Receives HDMI, USB data, audio, and control up to 230 feet (70 meters) over a shielded CAT 6A cable
- ▶ Supports computer and video resolutions up to 4K/60 @ 4:4:4
- ▶ USB 2.0 extension
- ▶ Integrated four-port USB hub
- ▶ Stereo audio de-embedding
- ▶ Sends remote power to DTP3 products

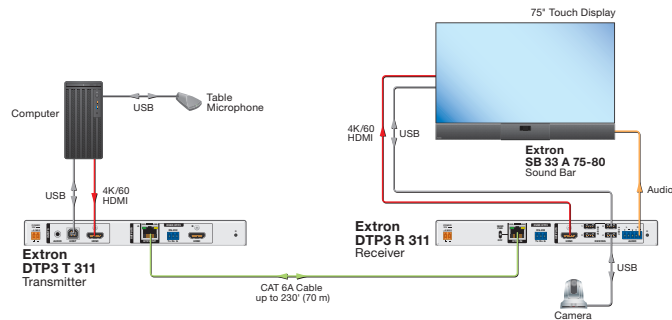
DESCRIPTION

The **DTP3 R 311** is a digital twisted pair receiver for extending HDMI, USB 2.0, audio, and bidirectional RS-232 signals up to 230 feet (70 meters) over a shielded CAT 6A cable. It supports video resolutions up to 4K/60 at 4:4:4 color sampling and complies with HDCP 2.3. For maximum image quality and minimal latency, all supported video resolutions are transported without compression. The DTP3 R 311 features a four-port USB hub and stereo audio de-embedding for convenient installation in professional environments. The low-profile enclosure makes the DTP3 R 311 ideal for discreet placement behind displays and in equipment racks for a variety of professional environments.

The DTP3 receiver enables the reliable transmission of HDMI 2.0b signals at data rates up to 18 Gbps, supporting HDR, Deep Color up to 12-bit, 3D, and embedded HD lossless audio formats. The DTP3 R 311 receiver can be used with a DTP3 T 311 transmitter in point-to-point USB extension applications and is compatible with other DTP3-enabled products.

The DTP3 R 311 supports USB 2.0 through 1.1 devices with data rates up to 480 Mbps. It is compatible with USB 3.0 devices that can operate at USB 2.0 data rates. Integrated USB signal extension enables connection to peripheral devices over the same twisted pair cable as HDMI signals. The four-port USB hub allows the connection of several USB devices such as interactive whiteboards, keyboards, mice, mass storage devices, and webcams on a single host port.

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

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

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

VIDEO INPUT

Number/signal type	
Connector	DTP3 input
	1 female RJ-45 jack

VIDEO OUTPUT

Connectors	1 female HDMI
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AUDIO OUTPUT — ANALOG

Connectors	(1) 3.5 mm captive screw connectors, 5-pole 1 female HDMI type A
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USB

Host support	xHCI (USB 3.2 Gen 1/2, USB 3.1 Gen 1/2, USB 3.0), EHCI (USB 2.0), OHCI/UHCI (USB 1.1)
Data rates	Low speed (1.5 Mbps), full speed (12 Mbps), high speed (480 Mbps)
Throughput	480 Mbps
Data transfer types	Bulk, control, interrupt, and isochronous

USB HUB

Connectors	4 female USB type A
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CONTROL/REMOTE — EXTERNAL DEVICE (RS-232 OVER TP)

Serial control pass-through ports	(1) RS-232 via 3.5 mm 3-pole captive screw connector
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GENERAL

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 4.2 A, 50 watts
Remote power budget	18.0 watts
Regulatory compliance	CE, c-UL UL, C-tick, FCC Class A, ICES, VCCI, Complies with the appropriate requirements of RoHS, WEEE
Everlast power supply warranty	7 years parts and labor

Model	Version Description	Part number
DTP3 R 311	HDMI 4K/60 Tx - 230 feet (70 m)	60-1773-13

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

Extron

www.extron.com