

Extron

Specifications

DTP3 T 211

TRUE 4K Specification

Max. 4K and 5K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
5120 x 1440 at 60 Hz	4:4:4	8 bit
5120 x 2880 at 30 Hz		
4096 x 2160 at 60 Hz		
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	12 bit
3840 x 2160 at 60 Hz		

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, 10, or 12 bits per color
 Signal Type HDMI 2.0b, DisplayPort 1.2 (Alt-Mode), HDCP 2.3
 Max. video data rate 18 Gbps (6 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/8KdataRate to determine video parameters supported by this data rate.

Video

Maximum data rate 18 Gbps (6 Gbps per color)
 Maximum pixel clock 600 MHz
 Resolution range
 VESA 640x480 to 4096x2160
 SMPTE Up to 1080p @ 120 Hz or 4K @ 60 Hz (4:4:4 chroma sampling)
 Ultra Wide & 5K 2560x1080, 3440x1440, 3840x1080, 3840x1440, 3840x1600,
 5120x1080* @ 60 Hz, 5120x1440* @ 60 Hz, 5120x2160 @ 30 Hz,
 5120x2560* @ 30 Hz, 5120x2880* @ 30 Hz

NOTE: *Indicated rates not available via standard 256-byte EDID and may require custom video card configuration.

Horizontal frequency range 15 kHz to 270 kHz for resolutions up to 18 Gbps
 Vertical frequency range 24 Hz to 240 Hz for resolutions up to 18 Gbps
 Color bit depth 8, 10, or 12 bits
 Formats RGB and YCbCr digital video
 Standards HDMI 2.0b, USB-C (DP Alt-Mode), HDCP 1.4, HDCP 2.3
 Power delivery* 5 VDC @ up to 3 A
 9 VDC @ up to 3 A
 12 VDC @ up to 3 A
 15 VDC @ up to 3 A
 20 VDC @ up to 3 A
 20 VDC @ up to 5 A

NOTE: *USB-C Power Delivery voltages are only available when a UPI 100 is used.

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Video Input

Number/signal type	1 USB-C (DisplayPort Alt-Mode, 2 or 4 lanes supported)
DisplayPort video	1 DisplayPort Alt mode, DP 1.2 (2 or 4 lanes), RBR/1.62 Gbps, HBR/2.7 Gbps, HBR2/5.4 Gbps
Connector	1 female, USB type C
EDID emulation	128-256 byte EDID support (1-2 blocks)

Video Output

Number/signal type	1 single link HDMI or DVI-D* (Loop Out) 1 DTP3 or HDBaseT, configurable
Connectors	1 female HDMI (Loop Out) 1 female RJ-45

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

Interconnection between transmitter and receiver

Connector	1 female RJ-45
Termination standard	TIA/EIA T568B

Signal Transmission Distance (using XTP DTP 24 cable)

1080p @ 60 Hz	Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
4K/UHD @ 30 Hz	Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
4K/UHD @ 60Hz (1)	Up to 150' (45 m) using shielded twisted pair STP or XTP DTP 24 cable Using 1 coupler with 3' (0.9 m) to 9' (2.7 m) patch cable Using 2 couplers with two 3' (0.9 m) (max) patch cables (each patch cable cannot exceed 3') Using two punch downs with two 3' (0.9 m) to 9' (2.7 m) patch cables
4K/UHD @ 60Hz (2)	Up to 175' (53 m) using shielded twisted pair STP or XTP DTP 24 cable with no couplers
Cable requirements	Solid conductor, 24 AWG or better
Cable recommendations	400 MHz bandwidth, STP (shielded twisted pair) cable

Signal Transmission Distance (using XTP DTP 22 cable)

1080p @ 60 Hz	Up to 330' (100 m) using XTP DTP 22 cable
4K/UHD @ 30 Hz	Up to 330' (100 m) using XTP DTP 22 cable
4K/UHD @ 60Hz (1)(2)	Up to 330' (100 m) using XTP DTP 22 cable Using 1 coupler with 3' (0.9 m) to 16' (4.9 m) patch cable Using 2 couplers with two 4' (1.2 m) (max) patch cables (each patch cable cannot exceed 4') Using two punch downs with two 3' (0.9 m) to 8' (2.4 m) patch cables
Cable requirements	Solid conductor, 22 AWG or better
Cable recommendations	500 MHz bandwidth, STP (shielded twisted pair) cable

NOTE: Extron XTP DTP 22 shielded twisted pair cable is strongly recommended for optimal performance.
(1) With coupler(s), (2) No couplers

Audio

Sampling rates	32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192 kHz
Bit depths	16, 20, 24 bit

Audio Input

Number/signal type	1 embedded digital audio USB-C signal
Connector	1 female USB-C (shared with video input)

Specifications • DTP3 T 211 (Continued)

Communications

Control/Remote — Transmitter

USB control port	1 female USB type C, front panel
USB standards	USB 2.0, low speed
Program control	Extron Simple Instruction Set (SIS™), Extron PCS

Control/Remote — External Device (RS-232 Over DTP)

Serial control pass-through ports	1 RS-232, 3.5 mm 3-pole captive screw connector
Baud rate and protocol	300 to 115200 baud
Protocol	8 or 7 data bits 1 or 2 stop bits No parity (default), even or odd parity
Serial control pin configuration	1 = Tx, 2 = Rx. 3 = Gnd

NOTE: Protocol is mirrored between the connected DTP3 endpoints and the "Over TP" port. Signals from a control device pass into each "Over TP" port, are embedded with the DTP signal, and sent to the individual DTP3 endpoints for control of remote sink or source devices.

General

Power supply	External (included with Tx) Input: 100 to 240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
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Power consumption	
Device	8.7 watts
Device and power supply	10.6 watts
Remote power budget	18.0 watts

NOTE: The transmitter can be powered either locally by an external power supply or remotely by a receiver on the other end of the twisted pair cable.

Ambient temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +104 °F (0 to +40 °C) / 10% to 90%, noncondensing
Cooling	Convection, vents on top and sides
Thermal dissipation	
Device	25.4 BTU/hr
Device and power supply	32 BTU/hr
Mounting	
Rack mount	Optional 1U high rack shelf
Furniture	Optional under-desk mount kit
Enclosure type	Metal
Enclosure dimensions	1.0" H x 4.3" W x 6.0" D (quarter rack wide) (25 mm H x 109 mm W x 152 mm D)
Product weight	0.6 lbs (0.27 kg)
Regulatory compliance	CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI Complies with the appropriate requirements of RoHS, WEEE
Product warranty	3 years parts and labor
Everlast power supply warranty	7 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.
Specifications are subject to change without notice.
Shipping weights and dimensions are available at www.extron.com.

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