

## Specifications

### DTP3 T 202

#### TRUE 4K specification

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 60 Hz	4:4:4	8 bit
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		12 bit
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	
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, 12 bits per color  
 Signal type ..... HDMI 2.0b, HDCP 2.3  
 Max. video data rate ..... 18 Gbps (6 Gbps per color)

**NOTE:** <sup>1</sup>Subject to the maximum data rate limit. Use our calculator at [www.extron.com/8Kdata rate](http://www.extron.com/8Kdata rate) 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 ..... Up to 1080p @ 120 Hz or 4K @ 60 Hz (4:4:4 subsampling)  
 5120x1080\* @ 30 Hz, 5120x1440\* @ 30 Hz, 5120x2160 @ 30 Hz,  
 5120x2560\* @ 30 Hz, 5120x2880\* @ 30 Hz (4:4:4 subsampling)

**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 — subject to the maximum data rate limit  
 Formats ..... RGB and YCbCr digital video  
 HDR ..... HDR10, HDR10+, Dolby Vision  
 Standard ..... DVI 1.0, HDMI 2.0b, HDCP 1.x, HDCP 2.3

**NOTE:** Extron strongly recommends compatibility testing while designing, and before installing, any 3D system. There are several unique 3D formats in use by source devices and display manufacturers. The level of 3D product support is governed by pixel clock, signal format, and communication between source and sink devices. Please contact an Extron Applications Engineer for more information.

## Video Input

Number/signal type	
HDMI input .....	1 HDMI (or single link DVI-D, with appropriate DVI-HDMI adapters)
Connector	
HDMI input .....	1 female HDMI type A

## Video Output

Number/signal type.....	1 single link HDMI or DVI-D* (Loop through) 1 DTP3 (Output)
Connectors.....	1 female HDMI (loop through) 1 female RJ-45

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

## Interconnection Between Transmitter and Receiver

Connector.....	1 female RJ-45 per unit
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 or XTP DTP 24 cable
4K/UHD@ 30 Hz .....	Up to 330' (100 m) using shielded twisted pair STP or XTP DTP 24 cable
4K/UHD@ 60 Hz <sup>(1)</sup> .....	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@ 60 Hz <sup>(2)</sup> .....	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)

### 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@ 60 Hz <sup>(1), (2)</sup> .....	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 4' (1.2 m) (max) patch cables (each patch cable cannot exceed 4') Using two punch downs with 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)

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

## Communications

### Control/Remote — Transmitter

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

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

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 Rx endpoints and the "Over TP". 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. The "Over TP" ports are simply pass-through connections to DTP endpoints. There is no RS-232 insertion from any DTP3 control port to the "Over TP" ports.

### General

Power supply .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 2 A, 24 watts
Power consumption	
Device .....	7.16 watts
Device and power supply .....	8.10 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 +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling .....	Convection, vents on top and sides
Thermal dissipation	
Device .....	23.49 BTU/hr
Device and power supply .....	26.71 BTU/hr
Mounting	
Rack mount.....	Optional 1U high rack shelf
Furniture mount.....	Optional under-desk mount kit
Enclosure type .....	Metal
Enclosure dimensions .....	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.)
Product weight .....	TBD lbs (TBD kg)
Regulatory compliance.....	CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI Complies with 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.

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