

DTP3 R 201 D

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		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 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, or 12 bits per color
Signal Type	HDMI 2.0b, 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 <http://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.....	15 kHz to 270 kHz for resolutions up to 18 Gbps
Vertical frequency	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+, and Dolby Vision
Standards.....	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.

Specifications • DTP3 R 201 D (Continued)

Video input

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

Video output

Number/signal type	1 single link HDMI (of DVI-D*)
Connectors	1 female HDMI

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

Audio output

Number/signal type	1 digital audio, de-embedded from HDMI
Connectors	1 female HDMI type A (shared with video output)
Supported formats	LPCM up to 7.1/24-bit/192 kHz, Dolby Atmos®, Dolby® TrueHD, Dolby Digital Plus™, Dolby Digital EX, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0, DTS-HD Master Audio™, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS Digital Surround 5.1, DTS 2 Channel

Interconnection between transmitter and receiver

Connectors	1 female RJ-45 per unit
Termination standards	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 ⁽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 @ 60 Hz ⁽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 @ 60 Hz ⁽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

Specifications • DTP3 R 201 D (Continued)

Communications

(Control/Remote) — Receiver

USB control port	1 rear 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 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: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
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Power consumption	
Device	7.2 watts
Device and power supply	7.9 watts
Remote power budget	18 watts

NOTE: The receiver can be powered either locally by an external power supply or remotely by a transmitter 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, vent holes
Thermal dissipation	
Device	20.2 BTU/hr
Device and power supply	22.8 BTU/hr
Mounting	
Rack mount	Yes, with a 1 gang wall box or mud ring
Enclosure type	Metal
Enclosure dimensions	
Faceplate	2.6" H x 1.3" W x 0.3" D (66 mm H x 33 mm W x 8 mm D)
Device	2.8" H x 1.7" W x 1.9" D (71 mm H x 43 mm W x 48 mm D)
Product weight	TBD lbs (TBD 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.

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