

DTP3 R 201

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		

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

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

Horizontal frequency range.....	5 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

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Video input

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

Video output

Number/signal type	1 single link HDMI or DVI-D*
Connector	1 female HDMI

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

Audio output

Number/signal type	1 analog stereo (2-channel), balanced/unbalanced 1 digital audio, de-embedded from HDMI
Connectors	(1) 3.5 mm captive screw connector, 5 pole 1 female HDMI type A (shared with video output)
Supported formats	
HDMI	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
Analog	Analog stereo audio
Impedance	50 ohms unbalanced, 100 ohms balanced
Maximum level (Hi-Z)	>+12 dBV balanced; +6 dBV unbalanced
Gain error	±0.5 dB channel to channel

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

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 ⁽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)

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 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.

⁽¹⁾ With coupler(s), ⁽²⁾ No couplers

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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 (pass-through, unidirectional or bidirectional)

Serial control pass-through ports	1 RS-232, 3.5 mm, 3-pole captive screw connector
Baud rate	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	7.37 watts
Device and power supply	8.62 watts
Remote power budget	18.0 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, vents on top and sides
Thermal dissipation	
Device	24.20 BTU/hr
Device and power supply	28.48 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) (25 mm H x 109 mm W x 152 mm D) (Depth excludes connectors.)
Product weight	0.6 lbs (0.27 kg)
Regulatory compliance	CE, C-tick, C-UL, UL, 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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