

DTP3 R 301

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	4:2:0	12 bit
4096 x 2160 at 60 Hz		
3840 x 2160 at 60 Hz		

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.

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

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

Specifications • DTP3 R 301 (Continued)

Video input

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

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 @ 30Hz	Up to 330' (100 m) using shielded twisted pair (STP) or XTP DTP 24 cable
4K/UHD @ 60 Hz	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 Using 2 punch-downs with two 3' (0.9 m) to 9' (2.7 m) patch cables
4K/UHD @ 60 Hz	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 @ 30Hz	Up to 330' (100 m) using XTP DTP 22 cable
4K/UHD @ 60 Hz	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 Using 2 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)

NOTE: Extron XTP DTP 22 shielded twisted pair is strongly recommended for optimal performance.

Video output

Number/signal type	1 single link HDMI (or DVI-D*)
Connectors	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, balanced/unbalanced 1 digital audio, embedded with HDMI output
Connectors	(1) 3.5 mm captive screw connectors, 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)	>+11 dBu, balanced
Gain error	±0.5 dB channel to channel
Volume control range	-100 dB to 0 dB (control 0 to 100 in 1 dB steps)

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

Specifications • DTP3 R 301 (Continued)

USB

Host support.....	xHCI (USB 3.2 Gen 1/2, USB 3.1 Gen1/2, 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

NOTE: Extron strongly recommends compatibility testing while designing, and before installing, any system that includes a USB camera. There are several unique transport methods in use by USB camera manufacturers and the level of support is governed by this. Please contact an Extron Applications Engineering for more information.

USB hub

Number/signal type.....	(1) 4-port USB hub (supports up to 480 Mbps speeds)
Connectors.....	4 female USB type A
Maximum built-in USB hubs.....	1
Minimum built-in USB hubs.....	1
Available USB power	
USB 2.0	500 mA/port
USB HID	100 mA/port

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
Baud rate	300 to 115 k 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.

Control/Remote

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

General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 4.2 A, 50 watts
Power consumption	
Device	30.5 watts, 12 VDC
Device and power supply	33.9 watts, 100-240 VAC, 50-60 Hz
Remote power budget	18.0 watts
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	44.6 BTU/hr
Device and power supply	56.1 BTU/hr
Mounting	
Rack mount	Yes, with optional 1U high rack shelf or included ZipClip 400 mounting kit
Furniture mount	Yes, with optional under-desk mounting kit or included ZipClip 400 mounting kit
Enclosure type	Metal

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Enclosure dimensions.....	1.0" H x 8.75" W x 6.0" D (half rack wide) (25 mm H x 222 mm W x 152 mm D) (Depth excludes connectors.)
Product weight	1.2 lbs (0.54 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 ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

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