Specifications

DTP3 R 201

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[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, 12 bits per color
Signal type ..... HDMI 2.0b, HDCP 2.3
Max. video data rate ..... 18 Gbps (6 Gbps per color)

NOTE: [1]Subject 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 ..... 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 ..... 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

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

DTP3 ..... 1 DTP3

Connector

DTP3 input ..... 1 female RJ-45

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

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 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	7.37 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	TBD lbs (TBD 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 ±10%.
Specifications are subject to change without notice.

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