

Extron

Specifications

DTP3 CrossPoint 42

TRUE 4K specification

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 60 Hz	4:2:0	12 bit
3840 x 2160 at 60 Hz		
3840 x 2160 at 60 Hz	4:2:2	
4096 x 2160 at 30 Hz	4:4:4	8 bit
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz		
3840 x 2160 at 60 Hz		

Frame rate 24, 25, 30, 50, or 60 fps
 Chroma sampling..... 4:4:4, 4:2:2, or 4:2:0
 Color bit depth..... 8, 10, and 12 bits per color
 Signal Type DVI 1.0, Up to HDMI 2.0b and HDCP 2.3, DisplayPort 1.2
 Max. video data rate 18 Gbps (6 Gbps Per Color)

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.

Video

DisplayPort video DisplayPort Alt Mode, DP 1.2 supports up to HBR2/5.4 Gbps, HBR3/8.1 Gbps per lane
 Maximum data rate 18 Gbps (6 Gbps Per Color)
 Maximum pixel clock 600 MHz
 Scaled resolutions
 VESA..... 640x480 up to 4K (4096x2160) @ 60 Hz or UHD (3840x2160) @ 60 Hz
 SMPTE 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 2K, 3840x2160 (up to 60 Hz), 4096x2160 (up to 60 Hz)
 Ultra Wide..... 2560x1080, 3440x1440, 3840x1080, 3840x1440, 3840x1600
 Color space..... 4:4:4, 4:2:2, or 4:2:0
 Color bit depth..... 8, 10, and 12 bits per color – Subject to maximum data rate
 Standards..... DVI 1.0, Up to HDMI 2.0, DisplayPort 1.2, and HDCP 2.3
 Formats RGB and YCbCr digital video
 EDID and DDC..... Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards. EDID and DDC signals are actively buffered.
 HDCP..... Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI standards.
 HPD Supports Hot Plug Detection (HPD) of display as a pass-through signal.

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Video input

Number/signal type	3 HDMI 2.0 inputs 1 USB-C input (DisplayPort 1.2 Alt Mode (2 or 4 lanes) RBR/1.62 Gbps, HBR/2.7 Gbps, HBR2/5.4 Gbps)
Connectors	3 female HDMI type A 1 female USB-C
Equalization	Automatic
Horizontal frequency	15 kHz to 270 kHz
Vertical frequency	24 Hz to 240 Hz

Video processing

Digital sampling	8 or 10 bits per color, 600 MHz pixel clock maximum
Colors	1.07 billion colors (10 bit 4:4:4 processing)

Video output

Number/signal type	
Outputs 1A and 1B	1 HDMI 2.0 output 1 DTP3/XTP/HDBT scaled buffered output (configurable)
Output 2	1 HDMI 2.0 output

NOTE: Both HDMI and selectable DTP3/XTP/HDBT outputs are simultaneously active and HDCP compliant.

Connectors

Outputs 1A and 1B	1 female HDMI type A 1 female RJ-45
Output 2	1 female HDMI type A
Peripheral device power	250 mA per output (HDMI outputs only)
Scaled resolutions	
VESA	640x480 ⁸ , 800x600 ⁸ , 1024x768 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ⁸ , 1400x1050 ⁸ , 1600x900 ⁸ , 1600x1200 ⁸ , 1920x1200 ⁸ , 2048x1200 ⁸ , 2048x1536 ⁸ , 2560x1080 ⁸ , 2560x1440 ⁸ , 2560x1600 ⁸ 4096x2160 column, 3840x2160 column, and custom 1-10
SMPTE	480p ^{7,8} , 576p ⁸ , 720p ^{3,4,5,6,7,8} , 1080i ^{6,7,8} , 1080p ^{1,2,3,4,5,6,7,8} , 2K ^{1,2,3,4,5,6,7,8} , 3840x2160 ^{1,2,3,4,5,6*,7*,8*} , 4096x2160 ^{1,2,3,4,5,6**,7**,8**}
Ultra Wide	2560x1080 ⁸ ¹ 23.98 Hz, ² 24 Hz, ³ 25 Hz, ⁴ 29.97 Hz, ⁵ 30 Hz, ⁶ 50 Hz, ⁷ 59.94 Hz, ⁸ 60 Hz *Available only over HDMI or DTP3 outputs **Available only over HDMI outputs
Standards	DVI 1.0, Up to HDMI 2.0, DisplayPort 1.2, and HDCP 2.3

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) cable or XTP DTP 24 cable
4K/UHD @ 30 Hz	Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
4K/UHD @ 60 Hz	Up to 150' (45 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable Using 1 coupler with 3'-9' patch cable Using 2 couplers with two 3' patch cables (each patch cable cannot exceed 3') Using two punch downs with two 3'-9' patch cables
4K/UHD @ 60 Hz	Up to 175' (53 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable with no couplers
Cable requirements	Solid conductor, 24 AWG or better
Cable recommendations	400 MHz bandwidth, STP cable

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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	Up to 330' (100 m) using XTP DTP 22 cable
	Using 1 coupler with 3-16' patch
	Using 2 couplers with two 4' patch cables (each patch cable cannot exceed 4')
	Using two punch downs with two 3'-8' patch cables
Cable requirements	Solid conductor, 22 AWG or better
Cable recommendations	500 MHz bandwidth, STP cable

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

Audio

Gain	Unbalanced output: -6 dB; balanced output: 0 dB (default)
Frequency response	20 Hz to 20 kHz, ± 0.5 dB
THD + Noise	<0.01%, 20 Hz - 20 kHz nominal level
S/N	>90 dB at maximum balanced output (unweighted)
Crosstalk	≤ -80 dB @ 1 kHz fully loaded
CMRR	65 dB @ 20 Hz to 20 kHz
Stereo channel separation	>80 dB @ 1 kHz
Audio bits depth	16, 20, 24 bit
Sampling rate	32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192 kHz

Audio output

Number/signal type	1 balanced or unbalanced stereo. Can be configured as stereo or dual mono channels. 1 digital audio from HDMI inputs (2-Ch LPCM only) (DTP3) 1 digital audio embedded, from DTP3/XTP inputs (2-Ch LPCM only) (Embedded digital and remote balanced or unbalanced analog)* *Available only in DTP mode
Connectors	(1) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45
Impedance	50 ohms unbalanced, 100 ohms balanced
Source formats	
HDMI	LPCM up to 8-CH, Dolby Atmos®, Dolby® TrueHD, Dolby Digital Plus™, Dolby Digital EX, Dolby Digital, DTS-HD Master Audio™, DTS-HD High Res, DTS 96/24, DTS-ES®, DTS, analog stereo
Analog	Analog stereo audio
Impedance	50 ohms unbalanced; 100 ohms balanced (analog only)
Maximum level (Hi-Z)	>+21 dBu balanced, +15 dBu unbalanced
Gain error	± 0.5 dB channel to channel
Volume control range	-100 dB to 0 dB (control 0-100 in 1 dB steps) (control 0 to 64)

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV $\approx$ 2 dBu

USB-C

USB-C features supported	DisplayPort alt-mode video (2-lane, 4-lane) USB-C power delivery USB data (USB model only)
USB standards	USB 3.2 (Gen 1), USB 2.0, USB 1.1 (USB model only)
USB data rates	Up to USB 10 Gbps (USB model only)
Data transfer types	Bulk, control, interrupt, and isochronous (USB model only)

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USB-C power delivery.....	Up to 60 watts/100 watts power delivery at the following power profiles: (15 watts) 5 VDC @ up to 3 A (27) watts) 9 VDC @ up to 3 A (36 watts) 12 VDC @ up to 3A (45 watts) 15 VDC @ up to 3 A (60 watts) 20 VDC @ up to 3 A (100 watts) 20 VDC @ up to 5 A (USB model only)
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USB host ports — USB model only

Number/signal type.....	2 USB 3.2, 1 USB-C
Connectors.....	2 female USB 3.2 type B 1 female USB type C
USB host support.....	xHCI (USB 3.2) EHCI (USB 2.0) OHCI/UHCI (USB 1.1)

USB device ports — USB model only

Number/signal type.....	5 USB
Connectors.....	2 female USB 3.2 type A 2 female USB 2.0/1.x type A 1 DTP3 twisted pair (for USB 2.0 extension)
USB standards.....	USB 3.2 USB 2.0 USB 1.x
USB Max data rates.....	Up to High speed (480 Mbps), local USB 2.0 device ports and twisted pair extension port Up to USB 10Gbps, local USB 3.2 device ports
Available USB power	USB-A 3.2: 900 mA per port USB-A 2.0: 500 mA per port
Maximum built-in USB hubs.....	2
Minimum built-in USB hubs.....	1
Optional built-in USB hubs.....	0

Communications

USB configuration port	
Number/type.....	1 front panel female USB-C
USB standards	IP over USB-C USB 2.0, high speed
Ethernet control port	
Number/type.....	1 rear panel female RJ-45
Ethernet data rate.....	10/100/1000Base-T, half/full duplex with auto detect
Ethernet protocol.....	ARP, ICMP (ping), DHCP, DNS, HTTPS, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP
Security	802.1X
Default settings.....	Link speed and duplex level: autodetected IP address: 192.168.254.254 Subnet mask: 255.255.255.0 Gateway: 0.0.0.0 DHCP: OFF
Storage	512 MB user memory for logos
Program control	Extron Product Configuration Software (PCS) Extron Simple Instruction Set™ (SIS™) Internal webpage

Communications — External Device (pass-through, unidirectional or bidirectional) (RS-232/IR over TP)

Serial control pass-through ports..	RS-232 can be transmitted to and from DTP3 and XTP Tx via Ethernet insertion
Baud rates.....	300 to 38400 baud
Protocol.....	8 or 7 data bits, 1 or 2 stop bits, even or odd parity

Specifications • DTP3 CrossPoint 42 (Continued)

General

Power supply	Internal
	Input: 100-240 VAC, 50-60 Hz
Power consumption	
Non-USB model	
Full load	113.1 watts
Power save mode 1	76.6 watts
USB model	
Full load	200.9 watts
Power save mode 1	43.8 watts
Remote power capability.....	Supports DTP3 and DTP remote power (Remote power not available in XTP and HDBaseT modes)
Ambient temperature/humidity	Storage: -40 to +158°F (-40 to +70°C)/10% to 90%, noncondensing Operating: +32 to +104°F (0 to +40°C)/10% to 90%, noncondensing
Cooling.....	2 fans, air flows from front to back
Fan noise	36 dB(A) (variable speed fan measured at max. speed)
Thermal dissipation	
Non-USB model	
Full load	162.5 BTU/hr
Power Save mode 1	261.4 BTU/hr
USB model	
Full load	248 BTU/hr
Power Save mode 1	103.6 BTU/hr
Mounting	
Rack mount	Yes, with optional rack shelf
Furniture mount	Yes, with optional under-desk mounting kit
Enclosure type	Metal
Enclosure dimensions.....	1.66" H x 8.69" W x 11.5" D (1U high, half rack wide) (4.22 cm H x 22 cm W x 29 cm D) (Depth excludes connectors and knobs.)
Product weight	3.3 lbs (1.5 kg)
Regulatory compliance	CE, C-UL, UL, FCC Class A, VCCI, AS/NZS, ICES, RoHs, Weee
Warranty	3 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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