

# Specifications

## DTP CrossPoint 108 4K, DTP CrossPoint 86 4K, DTP CrossPoint 84 4K, DTP CrossPoint 82 4K Series

### TRUE 4K specification

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

Frame rate<sup>1</sup> ..... 24, 25, 30, 50, or 60 fps  
 Chroma sampling<sup>1</sup> ..... 4:4:4, 4:2:2, or 4:2:0  
 Color bit depth<sup>1</sup> ..... 8 bits per color  
 Signal type ..... HDMI 1.4, HDCP 1.4  
 Max. video data rate ..... 10.2 Gbps (3.4 Gbps per color)

**NOTE:** <sup>1</sup>Subject to the maximum data rate limit. Use our calculator (<http://www.extron.com/product/videtools.aspx>) to determine video parameters supported by this data rate.

### Video

Routing

- DTP CrossPoint 108 4K ..... 10 x 8 matrix
- DTP CrossPoint 86 4K ..... 8 x 6 matrix
- DTP CrossPoint 84 4K ..... 8 x 4 matrix
- DTP CrossPoint 82 4K ..... 8 x 2 matrix

Maximum data rate ..... 10.2 Gbps (3.4 Gbps per color)  
 Maximum pixel clock ..... 300 MHz (600 MHz for 4K rates with 4:2:0 chroma subsampling)  
 Resolution ..... Up to 2560x1600\* @ 60 Hz or  
 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz  
 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling\*\*  
 (\* reduced blanking)  
 (\*\* supported only at non-scaled HDMI outputs)

Formats ..... RGB and YCbCr digital video  
 Standards ..... DVI 1.0, HDMI 1.4, HDCP 1.4, CEA-861E

## Video input

### Number/signal type

DTP CrossPoint 108 4K .....	6 HDMI digital video (HDCP compliant) 4 DTP or XTP (configurable)
DTP CrossPoint 86 4K .....	6 HDMI digital video (HDCP compliant) 2 DTP or XTP (configurable)
DTP CrossPoint 84 4K .....	6 HDMI digital video (HDCP compliant) 2 DTP or XTP (configurable)
DTP CrossPoint 82 4K .....	6 HDMI digital video (HDCP compliant) 2 DTP or XTP (configurable)

### Connectors

DTP CrossPoint 108 4K .....	6 female HDMI type A 4 female RJ-45
DTP CrossPoint 86 4K .....	6 female HDMI type A 2 female RJ-45
DTP CrossPoint 84 4K .....	6 female HDMI type A 2 female RJ-45
DTP CrossPoint 82 4K .....	6 female HDMI type A 2 female RJ-45

## Matrix video outputs (non scaled)

### Number/signal type

DTP CrossPoint 108 4K .....	4 HDMI digital video (HDCP compliant)
DTP CrossPoint 86 4K .....	2 HDMI digital video (HDCP compliant)
DTP CrossPoint 84 4K .....	2 HDMI digital video (HDCP compliant)
DTP CrossPoint 82 4K .....	0

### Connectors

DTP CrossPoint 108 4K .....	4 female HDMI
DTP CrossPoint 86 4K .....	2 female HDMI
DTP CrossPoint 84 4K .....	2 female HDMI
DTP CrossPoint 82 4K .....	0

## Scaled TP outputs

### Number/signal type

DTP CrossPoint 108 4K .....	4 DTP, XTP, or HDBaseT (configurable) 2 buffered HDMI digital video (HDCP compliant)
DTP CrossPoint 86 4K .....	4 DTP, XTP, or HDBaseT (configurable) 2 buffered HDMI digital video (HDCP compliant)
DTP CrossPoint 84 4K .....	2 DTP, XTP, or HDBaseT (configurable) 2 buffered HDMI digital video (HDCP compliant)
DTP CrossPoint 82 4K .....	2 DTP, XTP, or HDBaseT (configurable) 2 buffered HDMI digital video (HDCP compliant)

### Connectors

DTP CrossPoint 108 4K .....	4 female RJ-45 2 female HDMI
DTP CrossPoint 86 4K .....	4 female RJ-45 2 female HDMI
DTP CrossPoint 84 4K .....	2 female RJ-45 2 female HDMI
DTP CrossPoint 82 4K .....	2 female RJ-45 2 female HDMI

### Video processing

Digital pixel data bit depth .....	8, 10, or 12 bits per channel; 300 MHz pixel clock (HDMI)
Colors .....	1.07 billion (10-bit processing)

## Video input

Horizontal frequency.....	15 kHz to 100 kHz
Vertical frequency .....	24 Hz to 75 Hz
Resolution range .....	640x480 to 1600x1200 and 1920x1200* 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, and 2K through 4K @ 30Hz *reduced blanking
Scaled resolutions.....	640x480 <sup>8</sup> , 800x600 <sup>8</sup> , 852x480 <sup>8</sup> , 1024x768 <sup>8</sup> , 1024x852 <sup>8</sup> , 1024x1024 <sup>8</sup> , 1280x768 <sup>8</sup> , 1280x800 <sup>8</sup> , 1280x1024 <sup>8</sup> , 1360x765 <sup>8</sup> , 1360x768 <sup>8</sup> , 1365x768 <sup>8</sup> , 1366x768 <sup>8</sup> , 1365x1024 <sup>8</sup> , 1400x1050 <sup>8</sup> , 1440x900 <sup>8</sup> , 1600x900 <sup>8</sup> , 1600x1200 <sup>8</sup> , 1680x1050 <sup>8</sup> , 1920x1200 <sup>8</sup>  HDTV 480p <sup>7,8</sup> , 576p <sup>6</sup> , 720p <sup>3,4,5,6,7,8</sup> , 1080i <sup>6,7,8</sup> , 1080p <sup>1,2,3,4,5,6,7,8</sup> , 2048x1080 <sup>1,2,3,4,5,6,7,8</sup> , 1920x2160 <sup>1,2,3,4,5,6,7,8</sup> , 1920x2400 <sup>2,3,5,8</sup> , 2048x1200 <sup>8</sup> , 2048x1536 <sup>8</sup> , 2048x2160 <sup>1,2,3,4,5,6,7,8</sup> , 2048x2400 <sup>2,3,5,8</sup> , 2560x1080 <sup>8</sup> , 2560x1440 <sup>8</sup> , 2560x1600 <sup>8</sup> , 3840x2160 <sup>1,2,3,4,5</sup> , 3840x2400 <sup>5</sup> , 4096x2160 <sup>1,2,3,4,5</sup> <sup>1</sup> = at 23.98 Hz, <sup>2</sup> = at 24 Hz, <sup>3</sup> = at 25 Hz, <sup>4</sup> = at 29.97 Hz, <sup>5</sup> = at 30 Hz, <sup>6</sup> = at 50 Hz, <sup>7</sup> = at 59.94 Hz, <sup>8</sup> = at 60 Hz

## Logos

Number .....	16 logos
Resolution range.....	Up to 4096x2160
Image file formats.....	BMP, JPG, PNG, TIFF
Logo effects.....	Transparency, RGB key, level key, alpha key

## Shielded twisted pair interconnection

Connectors.....	Female RJ-45
Termination standard.....	TIA/EIA T568B
Signal transmission distance	
Resolutions up to 1920x1200 and 1080p	
DTP 330.....	Up to 330' (100 m) using shielded twisted pair cable or XTP DTP 24 TP cable
DTP 230.....	Up to 230' (70 m) using shielded twisted pair cable or XTP DTP 24 TP cable
2560x1600* and 4K @ 30 Hz (*reduced blanking)	
DTP 330.....	Up to 330' (100 m) using shielded twisted pair cable or XTP DTP 24 TP cable
DTP 230.....	Up to 130' (40 m) using shielded twisted pair cable or XTP DTP 24 TP cable
Cable requirements.....	Solid conductor, 24 AWG or better
Cable recommendations.....	400 MHz bandwidth, STP (shielded twisted pair)

**NOTE:** Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.

**NOTE:** Input and output mode signaling:

<b>DTP:</b>	HDMI with embedded audio, analog audio, RS-232 and IR, and remote power
<b>XTP:</b>	HDMI with embedded audio plus RS-232 and IR
<b>HDBT:</b>	HDMI with embedded audio plus RS-232 and IR

## Audio system (mic/line input to line output)

Gain.....	Unbalanced output: -6 dB; balanced output: 0 dB
Frequency response .....	20 Hz to 20 kHz, ±0.2 dB
Input impedance.....	>10k ohms unbalanced, >20k ohms balanced
THD + Noise.....	0.01% at 1 kHz nominal level
S/N.....	105 dB at maximum balanced output (unweighted)
Crosstalk .....	<-90 dB @ 20 Hz to 20 kHz, fully loaded
Stereo channel separation.....	>80 dB @ 20 Hz to 20 kHz
Digital conversion.....	24-bit, 48 kHz

## Audio

### Routing

DTP CrossPoint 108 4K .....	10 x 8 stereo switching matrix 4 x 4 microphone mixing matrix
DTP CrossPoint 86 4K .....	8 x 6 stereo switching matrix 4 x 4 microphone mixing matrix
DTP CrossPoint 84 4K .....	8 x 4 stereo switching matrix 4 x 4 microphone mixing matrix
DTP CrossPoint 82 4K .....	8 x 2 stereo switching matrix 4 x 4 microphone mixing matrix

### Supported formats — Pass through

HDMI connectors .....	LPCM up to 7.1/24-bit/192kHz, 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 connectors .....	Analog stereo audio
DTP connectors .....	De-embedded from HDMI [PCM only] or remote balanced/unbalanced analog

## Audio input

### Number/signal type

DTP CrossPoint 108 4K .....	6 stereo, analog line level, balanced or unbalanced 6 stereo, de-embedded from HDMI (PCM only) 4 DTP (de-embedded from HDMI [PCM only] and remote balanced/unbalanced analog), or XTP (embedded digital)
DTP CrossPoint 86 4K .....	6 stereo, analog line level, balanced or unbalanced 6 stereo, de-embedded from HDMI (PCM only) 2 DTP (de-embedded from HDMI [PCM only] and remote balanced/unbalanced analog), or XTP (embedded digital)
DTP CrossPoint 84 4K .....	6 stereo, analog line level, balanced or unbalanced 6 stereo, de-embedded from HDMI (PCM only) 2 DTP (de-embedded from HDMI [PCM only] and remote balanced/unbalanced analog), or XTP (embedded digital)
DTP CrossPoint 82 4K .....	6 stereo, analog line level, balanced or unbalanced 6 stereo, de-embedded from HDMI (PCM only) 2 DTP (de-embedded from HDMI [PCM only] and remote balanced/unbalanced analog), or XTP (embedded digital)

### Connectors

DTP CrossPoint 108 4K .....	(6) 3.5 mm captive screw connectors, 5-pole for analog line level inputs 6 female HDMI type A 4 female RJ-45
DTP CrossPoint 86 4K .....	(6) 3.5 mm captive screw connectors, 5-pole for analog line level inputs 6 female HDMI type A 2 female RJ-45
DTP CrossPoint 84 4K .....	(6) 3.5 mm captive screw connectors, 5-pole for analog line level inputs 6 female HDMI type A 2 female RJ-45
DTP CrossPoint 82 4K .....	(6) 3.5 mm captive screw connectors, 5-pole for analog line level inputs 6 female HDMI type A 2 female RJ-45

## Analog audio

Nominal level .....	+4 dBu, -10 dBV adjustable via input gain
Maximum level.....	+21 dBu balanced, +15 dBu unbalanced
Input gain adjustment .....	-18 dB to +24 dB, 0.1 dB steps, adjustable per input

**NOTE:** Unbalanced analog inputs at a DTP Tx input have +12 dB of gain applied to bring the signal to a nominal level for balanced operation.

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

## Mic/line input

Number/signal type.....	4 mono, mic/line, balanced/unbalanced (with phantom power)
Connectors .....	(4) 3.5 mm captive screw connectors, 3-pole
Impedance.....	10k ohms unbalanced, 20k ohms balanced
Nominal level.....	-60 dBV, +4 dBu, -10 dBV, adjustable via input gain
Maximum level .....	>+21 dBu at rated THD+N when mic gain is set to 0 dB
Equivalent input noise .....	<-120 dBV (1.0 $\mu$ Vrms) at +40 dB input gain
CMRR.....	>70 dB typical
Input gain adjustment.....	-18 dB to +80 dB, in 0.1 dB steps, adjustable per input
Microphone volume range.....	-100 dB to +12 dB
DC phantom power .....	+48 VDC, $\pm$ 10% (inputs 1-4) switched on or off

## Audio output

Number/signal type	
DTP CrossPoint 108 4K .....	6 HDMI embedded 4 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital) 4 stereo balanced/unbalanced analog (variable) 1 SPDIF
DTP CrossPoint 86 4K .....	4 HDMI embedded 4 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital) 4 stereo balanced/unbalanced analog (variable) 1 SPDIF
DTP CrossPoint 84 4K .....	4 HDMI embedded 2 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital) 4 stereo balanced/unbalanced analog (variable) 1 SPDIF
DTP CrossPoint 82 4K .....	2 HDMI embedded 2 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital) 2 stereo balanced/unbalanced analog (variable) 1 SPDIF

## Connectors

DTP CrossPoint 108 4K .....	6 female HDMI 4 RJ-45 (4) 3.5 mm captive screw, 5-pole 1 RCA
DTP CrossPoint 86 4K .....	4 female HDMI 4 RJ-45 (4) 3.5 mm captive screw, 5-pole 1 RCA
DTP CrossPoint 84 4K .....	4 female HDMI 2 RJ-45 (4) 3.5 mm captive screw, 5-pole 1 RCA
DTP CrossPoint 82 4K .....	2 female HDMI 2 RJ-45 (2) 3.5 mm captive screw, 5-pole 1 RCA

## Impedance

Stereo audio.....	50 ohms unbalanced, 100 ohms balanced
S/PDIF.....	75 ohms
Gain error.....	±0.1 dB channel to channel
Maximum level (Hi-Z).....	>+21 dBu, balanced or +15 dBu unbalanced
Output volume range .....	0 to -100 dB in 0.1 dB steps

## EXP port

Transmission type .....	Proprietary
Connectors.....	1 RJ-45
Inputs .....	16 channels Rx
Outputs .....	16 channels Tx
Audio format .....	24 bit, 48 kHz sampling, uncompressed
EXP cable .....	Shielded CAT 6 up to 10 meters

## Audio output — power amplifier

### (DTP CrossPoint 4K IPCP SA and DTP CrossPoint 4K IPCP MA models)

Number/signal type	
SA models.....	1 stereo or mono (2 channels total)
MA models.....	1 mono, 70 V

## Connector

**NOTE:** This connector accepts wires of 22 AWG to 12 AWG.

SA models.....	(1) 5 mm screw lock captive screw connector, 4-pole
MA models.....	(1) 5 mm screw lock captive screw connector, 2-pole
Load impedance	
SA models.....	4 ohms minimum
MA models.....	50 ohms minimum
High pass filter (MA models).....	80 Hz, 12 dB/octave roll off
Amplifier type .....	Class D
Output power	
SA models.....	25 watts (rms) per channel, 8 ohms, 1 kHz, 0.1% THD 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD
MA models.....	100 watts (rms) @ 70 V, 1 kHz, 0.1% THD
Protection .....	Clip limiting, thermal, short circuit, DC output

Frequency response	
SA models.....	20 Hz to 20 kHz, +1/-3 dB @ 1 watt
MA models.....	80 Hz to 20 kHz, +1/-3 dB @ 1 watt
THD + Noise.....	<0.1%, 1 kHz, 3 dB below clipping
S/N.....	>90 dB, 20 Hz to 20 kHz, unweighted

## Communications – switcher

Serial control port.....	1 bidirectional RS-232, 3.5 mm captive screw connector, 3-pole (rear panel)
Baud rate and protocol .....	9600 (default) to 115200 baud, 8 data bits, 1 stop bit, no parity (default)
Serial control pin configuration .....	1 = Tx, 2 = Rx, 3 = Gnd
USB control port .....	1 front panel female USB mini-B
USB standards .....	USB 2.0, low speed
Ethernet control port.....	1 female RJ-45 connector
Ethernet data rate .....	10/100Base-T, half/full duplex with autodetect
Ethernet protocol .....	DHCP, DNS, HTTP, HTTPS, ICMP, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP, ARP, Telnet
Ethernet default settings .....	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Default gateway = 0.0.0.0 DHCP = off
Web server .....	Up to 200 simultaneous sessions 40.0 MB nonvolatile user memory
Program control.....	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer®, Telnet

## Communications – external device (pass-through, unidirectional or bidirectional) (RS-232/IR over TP)

**NOTE:** Protocol is mirrored between the connected TP endpoints and the "Over TP" ports on the DTP CrossPoint switcher. Signals from a control device pass into each DTP CrossPoint switcher "Over TP" port, are embedded with the TP signal, and sent to individual TP Tx or Rx endpoints for control of remote sink or source devices.  
The "Over TP" ports are simply pass-through connections to TP endpoints. There is no IR insertion from any DTP CrossPoint switcher control port to the "Over TP" ports. RS-232 can be inserted from the Ethernet connection.

Serial control pass-through ports	
DTP CrossPoint switcher input/TP Tx.....	RS-232 via (2) 3.5 mm, 5-pole captive screw connectors (shared with IR ports)
DTP CrossPoint switcher output/TP Rx.....	RS-232 via (2) 3.5 mm, 5-pole captive screw connectors (shared with IR ports)
Baud rates.....	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
IR pass-through control ports.....	TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz
DTP CrossPoint switcher input/TP Tx.....	(2) 3.5 mm captive screw connectors, 5-pole (shared with RS-232 ports)
DTP CrossPoint switcher output/TP Rx.....	(2) 3.5 mm captive screw connectors, 5-pole (shared with RS-232 ports)
IR control pin configuration .....	3 = Gnd, 4 = IR Tx, 5 = IR Rx

## Control Processor – DTP CrossPoint 4K IPCP Models

Memory	
SDRAM .....	512 MB
Flash .....	4.5 GB
Software and control options	
Software.....	Extron Global Configurator Plus and Professional for Windows®
Control options.....	GlobalViewer®, TouchLink® for Web, TouchLink for iPad®, or TouchLink Pro touchpanels
Ethernet control	
Network interface controllers (NICs) .....	1
Network switch .....	1 unmanaged 3 port switch
Connectors .....	3 female RJ-45 connectors
Data rate .....	10/100/1000Base-T, half/full duplex with autodetect
Protocols.....	DHCP, DNS, HTTP, HTTPS, ICMP, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP
Default settings.....	Link speed and duplex level = autodetected IP address = 192.168.254.250 Subnet mask = 255.255.255.0 Gateway = 0.0.0.0 DHCP = off DNS: 127.0.0.1
Serial control	
Quantity/type.....	1 bidirectional RS-232, RS-422, RS-485 (port 1) 2 bidirectional RS-232 (ports 2 and 3)
Connectors .....	(1) 3.5 mm captive screw connector, 5-pole (2) 3.5 mm captive screw connectors, 3-pole
Baud rate and protocol.....	300 to 115200 baud (9600 baud = default); 8 (default) or 7 data bits; 1 (default) or 2 stop bits; no parity (default), even, odd, mark, or space parity

**NOTE:** The 5-pole ports support both hardware and software flow control.  
The 3-pole ports support software flow control.  
The default for both types of ports is no flow control.

### Pin configurations, serial, 5-pole captive screw

RS-232 (default).....	Pin 1 = Tx, 2 = Rx, 3 = Gnd, 4 = RTS, 5 = CTS
RS-422.....	Pin 1 = Tx-, 2 = Rx-, 3 = Gnd, 4 = Tx+, 5 = Rx+
RS-485.....	Pins 1 and 2 (tied together) = data-, 3 = Gnd, 4 and 5 (tied together) = data+

### Pin configurations, serial,

3-pole captive screw .....	Pin 1 = Tx, 2 = Rx, 3 = Gnd
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### Digital I/O control

Quantity/type.....	4 digital input/output (configurable)
Connectors .....	(1) 3.5 mm captive screw connector, 5-pole

### Digital inputs

Input voltage range.....	0 to 24 VDC, clamped a +30 VDC
Input impedance.....	29k ohms
Programmable pullup.....	1k ohms to +5 VDC
Threshold low to high.....	>2.8 VDC
Threshold high to low.....	<2.0 VDC

Digital outputs .....

Pin configuration.....	250 mA sink from 24 VDC max. 1, 2, 3, 4 = digital I/Os 1, 2, 3, 4; 5 = Gnd
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IR/serial control	
Quantity/type.....	2 programmable: unidirectional RS-232 ( $\pm 5$ V), TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
Connector .....	(1) 3.5 mm captive screw connector, 5-pole
Baud rate and protocol	
(RS-232).....	300 to 115200 baud (9600 baud = default); 8 (default) or 7 data bits; 1 (default) or 2 stop bits; No parity (default), even, odd, mark, or space parity
Pin configuration.....	For each post, pin 1 = signal, 2 = Gnd
IR output carrier frequency .....	30 kHz to 300 kHz
Relay control	
Quantity/type.....	4 normally open relays
Relay control connectors .....	(1) 204 mm captive screw, 6-pole
Relay control contact rating .....	24 VDC, 1 A

## General

Power supply .....	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption	
DTP CrossPoint 108 4K MA ....	184 watts
DTP CrossPoint 108 4K SA.....	179 watts
DTP CrossPoint 108 4K (non-IPCP).....	154 watts
DTP CrossPoint 86 4K MA .....	148 watts
DTP CrossPoint 86 4K SA.....	147 watts
DTP CrossPoint 86 4K (non-IPCP).....	119 watts
DTP CrossPoint 84 4K MA .....	136 watts
DTP CrossPoint 84 4K SA.....	136 watts
DTP CrossPoint 84 4K (non-IPCP).....	101 watts
DTP CrossPoint 82 4K MA .....	125 watts
DTP CrossPoint 82 4K SA.....	124 watts
DTP CrossPoint 82 4K (non-IPCP).....	91.2 watts
Remote power capability	
DTP CrossPoint 108 4K .....	Supports up to eight endpoints (four DTP Tx, four DTP Rx) (Remote power not available in XTP and HDBaseT modes)
DTP CrossPoint 86 4K .....	Supports up to six endpoints (two DTP Tx, four DTP Rx) (Remote power not available in XTP and HDBaseT modes)
DTP CrossPoint 84 4K .....	Supports up to four endpoints (two DTP Tx, two DTP Rx) (Remote power not available in XTP and HDBaseT modes)
DTP CrossPoint 82 4K .....	Supports up to four endpoints (two DTP Tx, two DTP Rx) (Remote power not available in XTP and HDBaseT modes)
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 .....	Fans, air flows from right to left (as viewed from front panel)

Thermal dissipation

DTP CrossPoint 108 4K MA ....	628 BTU/hr
DTP CrossPoint 108 4K SA.....	562 BTU/hr
DTP CrossPoint 108 4K (non-IPCP).....	526 BTU/hr
DTP CrossPoint 86 4K MA .....	505 BTU/hr
DTP CrossPoint 86 4K SA.....	501 BTU/hr
DTP CrossPoint 86 4K (non-IPCP).....	406 BTU/hr
DTP CrossPoint 84 4K MA .....	464 BTU/hr
DTP CrossPoint 84 4K SA.....	464 BTU/hr
DTP CrossPoint 84 4K (non-IPCP).....	345 BTU/hr
DTP CrossPoint 82 4K MA .....	427 BTU/hr
DTP CrossPoint 82 4K SA.....	425 BTU/hr
DTP CrossPoint 82 4K (non-IPCP).....	311 BTU/hr

Mounting

Rack mount..... Yes

Enclosure type ..... Metal

Enclosure dimensions

DTP CrossPoint 108 4K,  
DTP CrossPoint 86 4K ..... 5.25" H x 17.4" W x 15.3" D (3U high, full rack wide)  
(13.3 cm H x 43.2 cm W x 38.9 cm D)  
(Depth excludes connectors and knobs. Width excludes rack ears.)

DTP CrossPoint 84 4K,  
DTP CrossPoint 82 4K ..... 3.5" H x 17.4" W x 15.3" D (2U high, full rack wide)  
(8.9 cm H x 43.2 cm W x 38.9 cm D)  
(Depth excludes connectors and knobs. Width excludes rack ears.)

Product weight ..... 16.3 lbs (7.4 kg)

Vibration ..... ISTA 1A in carton (International Safe Transit Association)

DIM weight ..... 32 lbs (15 kg)

Regulatory compliance

Safety ..... CE, c-UL, UL

EMI/EMC..... CE, C-tick, FCC Class A, ICES, VCCI

Environmental..... Complies with the appropriate requirements of RoHS, WEEE

Warranty ..... 3 years parts and labor

**NOTE:** All Nominal levels are at  $\pm 10\%$

**NOTE:** Specifications are subject to change without notice.

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).

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