

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 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 bits per color |
| Signal type | HDMI 1.4, HDCP 1.4 |
| Max. video data rate | 10.2 Gbps (3.4 Gbps per color) |

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (www.extron.com/8Kdatarate) 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) |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

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 |

Video output power for

active cables (HDMI pin 18)..... 6.6 W total power for all HDMI ports, 1.1 W per HDMI port max

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 |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

| | |
|---|---|
| Scaled resolutions..... | 640x480 ⁸ , 800x600 ⁸ , 852x480 ⁸ , 1024x768 ⁸ , 1024x852 ⁸ , 1024x1024 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x1024 ⁸ , 1360x765 ⁸ , 1360x768 ⁸ , 1365x768 ⁸ , 1366x768 ⁸ , 1365x1024 ⁸ , 1400x1050 ⁸ , 1440x900 ⁸ , 1600x900 ⁸ , 1600x1200 ⁸ , 1680x1050 ⁸ , 1920x1200 ⁸ |
| HDTV 480p ^{7,8} , 576p ⁶ , 720p ^{3,4,5,6,7,8} , 1080i ^{6,7,8} , 1080p ^{1,2,3,4,5,6,7,8} , 2048x1080 ^{1,2,3,4,5,6,7,8} , 1920x2160 ^{1,2,3,4,5,6,7,8} , 1920x2400 ^{2,3,5,8} , 2048x1200 ⁸ , 2048x1536 ⁸ , 2048x2160 ^{1,2,3,4,5,6,7,8} , 2048x2400 ^{2,3,5,8} , 2560x1080 ⁸ , 2560x1440 ⁸ , 2560x1600 ⁸ , 3840x2160 ^{1,2,3,4,5} , 3840x2400 ⁵ , 4096x2160 ^{1,2,3,4,5} | |
| | ¹ = at 23.98 Hz, ² = at 24 Hz, ³ = at 25 Hz, ⁴ = at 29.97 Hz, ⁵ = at 30 Hz, ⁶ = at 50 Hz, ⁷ = at 59.94 Hz, ⁸ = 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:

| | |
|-------|---|
| DTP: | HDMI with embedded audio, analog audio, RS-232 and IR, and remote power |
| XTP: | HDMI with embedded audio plus RS-232 and IR |
| HDBT: | 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 |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

Supported formats — Pass through

| | |
|-------------------------|---|
| HDMI connectors | LPCM up to 7.1/24-bit/192kHz, 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 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 ≈ 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 μVrms) at +40 dB input gain |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

| | |
|------------------------------|---|
| 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, ±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 |
| Program control..... | Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer®, Telnet |
| 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 |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

| | |
|--------------------|---------------------------------------|
| 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 |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

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, odd, mark, or space 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 |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

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

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 250 mA sink from 24 VDC max.

Pin configuration..... 1, 2, 3, 4 = digital I/Os 1, 2, 3, 4; 5 = Gnd

IR/serial control

Quantity/type..... 2 programmable: unidirectional RS-232 (± 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

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

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 | 499 BTU/hr |
| DTP CrossPoint 108 4K SA..... | 486 BTU/hr |
| DTP CrossPoint 108 4K (non-IPCP)..... | 440 BTU/hr |
| DTP CrossPoint 86 4K MA | 375 BTU/hr |
| DTP CrossPoint 86 4K SA..... | 376 BTU/hr |
| DTP CrossPoint 86 4K (non-IPCP)..... | 321 BTU/hr |
| DTP CrossPoint 84 4K MA | 356 BTU/hr |
| DTP CrossPoint 84 4K SA..... | 355 BTU/hr |
| DTP CrossPoint 84 4K (non-IPCP)..... | 279 BTU/hr |
| DTP CrossPoint 82 4K MA | 319 BTU/hr |
| DTP CrossPoint 82 4K SA..... | 315 BTU/hr |
| DTP CrossPoint 82 4K (non-IPCP)..... | 248 BTU/hr |
| Mounting | |
| Rack mount..... | Yes |
| Enclosure type | Metal |

Specifications • DTP CrossPoint 108/86/84/82 4K (Continued)

Enclosure dimensions

| | |
|--|--|
| DTP CrossPoint 108 4K, DTP CrossPoint 86 4K | 5.25" H x 17.4" W x 16" D (3U high, full rack wide) (13.3 cm H x 43.2 cm W x 40.6 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

| | |
|--|-----------------|
| DTP CrossPoint 108 4K, DTP CrossPoint 86 4K | 17 lbs (7.7 kg) |
| DTP CrossPoint 84 4K, DTP CrossPoint 82 4K | 14 lbs (6.4 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 |

Product warranty 3 years parts and labor

Everlast power supply warranty..... 7 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.

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