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

Max. 4K Capabilities

<table>
<thead>
<tr>
<th>Resolution and Refresh Rate</th>
<th>Chroma Sampling</th>
<th>Max. Bit Depth per Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>4096 x 2160 at 30 Hz</td>
<td>4:4:4</td>
<td>8 bit</td>
</tr>
<tr>
<td>3840 x 2160 at 30 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4096 x 2160 at 60 Hz</td>
<td>4:2:0</td>
<td></td>
</tr>
<tr>
<td>3840 x 2160 at 60 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:** \(^1\)Subject to the maximum data rate limit. Use our calculator ([http://www.extron.com/product/videotools.aspx](http://www.extron.com/product/videotools.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

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>DTP CrossPoint 108 4K</th>
<th>DTP CrossPoint 86 4K</th>
<th>DTP CrossPoint 84 4K</th>
<th>DTP CrossPoint 82 4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video input</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI digital video (HDCP compliant)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>DTP or XTP (configurable)</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Connectors</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female HDMI type A</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Female RJ-45</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### Matrix video outputs (non scaled)

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>DTP CrossPoint 108 4K</th>
<th>DTP CrossPoint 86 4K</th>
<th>DTP CrossPoint 84 4K</th>
<th>DTP CrossPoint 82 4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video output</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI digital video (HDCP compliant)</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Connectors</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female HDMI</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

### Scaled TP outputs

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>DTP CrossPoint 108 4K</th>
<th>DTP CrossPoint 86 4K</th>
<th>DTP CrossPoint 84 4K</th>
<th>DTP CrossPoint 82 4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaled TP outputs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTP, XTP, or HDBaseT (configurable)</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Buffered HDMI digital video (HDCP compliant)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Connectors</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female RJ-45</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Female HDMI</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### 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, 800x600, 852x480, 1024x768, 1024x852, 1280x768, 1280x800, 1280x1024, 1360x768, 1360x864, 1365x768, 1366x768, 1400x1050, 1440x900, 1600x1200, 1680x1050, 1920x1200

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

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

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**

**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**


**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 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
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
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

<table>
<thead>
<tr>
<th>DTP CrossPoint 108 4K</th>
<th>6 HDMI embedded</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital)</td>
<td></td>
</tr>
<tr>
<td>4 stereo balanced/unbalanced analog (variable)</td>
<td></td>
</tr>
<tr>
<td>1 SPDIF</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DTP CrossPoint 86 4K</th>
<th>4 HDMI embedded</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital)</td>
<td></td>
</tr>
<tr>
<td>4 stereo balanced/unbalanced analog (variable)</td>
<td></td>
</tr>
<tr>
<td>1 SPDIF</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DTP CrossPoint 84 4K</th>
<th>4 HDMI embedded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital)</td>
<td></td>
</tr>
<tr>
<td>4 stereo balanced/unbalanced analog (variable)</td>
<td></td>
</tr>
<tr>
<td>1 SPDIF</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DTP CrossPoint 82 4K</th>
<th>2 HDMI embedded</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 DTP (embedded digital and remote balanced/unbalanced analog), XTP (embedded digital), or HDBaseT (embedded digital)</td>
<td></td>
</tr>
<tr>
<td>2 stereo balanced/unbalanced analog (variable)</td>
<td></td>
</tr>
<tr>
<td>1 SPDIF</td>
<td></td>
</tr>
</tbody>
</table>
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

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

### 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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial control pass-through ports</td>
<td></td>
</tr>
<tr>
<td>DTP CrossPoint switcher input/TP Tx</td>
<td>RS-232 via (2) 3.5 mm, 5-pole captive screw connectors (shared with IR ports)</td>
</tr>
<tr>
<td>DTP CrossPoint switcher output/TP Rx</td>
<td>RS-232 via (2) 3.5 mm, 5-pole captive screw connectors (shared with IR ports)</td>
</tr>
<tr>
<td>Baud rates</td>
<td>300 to 115200 baud</td>
</tr>
<tr>
<td>Protocol</td>
<td>8 or 7 data bits</td>
</tr>
<tr>
<td></td>
<td>1 or 2 stop bits</td>
</tr>
<tr>
<td></td>
<td>no parity (default), even or odd parity</td>
</tr>
<tr>
<td>Serial control pin configuration</td>
<td>1 = Tx, 2 = Rx, 3 = Gnd</td>
</tr>
<tr>
<td>IR pass-through control ports</td>
<td>TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz</td>
</tr>
<tr>
<td>DTP CrossPoint switcher input/TP Tx</td>
<td>(2) 3.5 mm captive screw connectors, 5-pole (shared with RS-232 ports)</td>
</tr>
<tr>
<td>DTP CrossPoint switcher output/TP Rx</td>
<td>(2) 3.5 mm captive screw connectors, 5-pole (shared with RS-232 ports)</td>
</tr>
<tr>
<td>IR control pin configuration</td>
<td>3 = Gnd, 4 = IR Tx, 5 = IR Rx</td>
</tr>
</tbody>
</table>
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

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

**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, four DTP Rx) (Remote power not available in XTP and HDBaseT modes)
  - DTP CrossPoint 82 4K: Supports up to four endpoints (two DTP Tx, four 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

<table>
<thead>
<tr>
<th>Model</th>
<th>BTU/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTP CrossPoint 108 4K MA</td>
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<tr>
<td>DTP CrossPoint 108 4K SA</td>
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<td>(non-IPCP)</td>
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<td>DTP CrossPoint 86 4K MA</td>
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<td></td>
</tr>
<tr>
<td>(non-IPCP)</td>
<td>311</td>
</tr>
</tbody>
</table>

### Mounting
- Rack mount: Yes

### Enclosure type
- Metal

### Enclosure dimensions
- **DTP CrossPoint 108 4K, DTP CrossPoint 86 4K**
  - Height: 5.25” H x 17.4” W x 15.3” D (3U high, full rack wide)
  - (Depth excludes connectors and knobs. Width excludes rack ears.)

- **DTP CrossPoint 84 4K, DTP CrossPoint 82 4K**
  - Height: 3.5” H x 17.4” W x 15.3” D (2U high, full rack wide)
  - (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

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**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](http://www.extron.com).