

Specifications

XTP CP 4K I/O Boards

TRUE 4K

| 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 rate¹ 24, 25, 30, 50, or 60 fps
 Chroma sampling¹ 4:4:4, 4:2:2, or 4:2:0
 Color bit depth¹ 8 bits per color
 Signal type Refer to XTP endpoints
 Max. video data rate 10.2 Gbps (3.4 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdata to determine video parameters supported by this data rate.

Video — XTP CP 4i 4K, XTP CP 4o 4K

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.

Gain Unity
 Resolution range Up to 2560x1600 @ 60 Hz*, 1080p @ 120 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz, 4K/UHD @ 60 Hz with 4:2:0 color subsampling
 *reduced blanking
 Signal type Single-link HDMI (or DVI-D or DisplayPort)
 Maximum data rate 10.2 Gbps (3.4 Gbps per color)
 Maximum pixel clock 300 MHz
 Video formats RGB and YCbCr digital video
 Standards Refer to XTP endpoints
 Switching speed 200 ms (max.)
 Audio format Analog stereo, Dolby® Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos™, DTS®, DTS-ES, DTS-ES 96/24, DTS-HD High Res, DTS-HD Master Audio™, up to 8 ch PCM

Specifications • XTP CP 4K I/O Boards (Continued)

Shielded twisted pair interconnection

| | |
|-----------------------------------|--|
| Number/signal type..... | 4 sets of proprietary signals |
| Connectors..... | 4 female RJ-45 per board |
| Termination standards..... | TIA/EIA T568B |
| Signal transmission distance..... | 330' (100 m) using shielded twisted pair or XTP DTP 24 cable |

NOTE: Lower resolutions may support longer transmission distances. Transmission distance varies depending on the signal resolution, type of cable, and source device used in the system.

| | |
|----------------------------|--|
| 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.

Communications – external device (pass-through, unidirectional or bidirectional)

| | |
|--|---|
| Serial control pass-through ports ... | RS-232 (± 5 V) via (4) 3.5 mm, 5 pole captive screw connectors (uses 3 poles) (connector is shared with IR control ports) |
| Baud rates..... | 300 to 115200 baud |
| Protocol..... | 5 to 8 data bits 1 or 2 stop bits no parity (default), even or odd parity flow control Xon, Xoff, and none |
| Serial control pin configuration | 1 = Tx, 2 = Rx, 3 = Gnd |
| IR control port..... | (4) 3.5 mm, captive screw connector, 5-pole (uses 3 poles) (connector is shared with RS-232 control ports) TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 56 kHz |
| IR control pin configuration | 3 = Gnd, 4 = IR Tx, 5 = IR Rx |
| Ethernet pass-through ports | 4 female RJ-45 |
| Ethernet data rate | 10/100Base-T, half/full duplex with autodetect |

General

| | |
|----------------------------|---|
| Power | Supplied by XTP CrossPoint or XTP II CrossPoint enclosure |
| Power consumption | |
| XTP CP 4i 4K | |
| PoE | 79 watts (XTP CrossPoint 1600, XTP CrossPoint 3200, XTP II CrossPoint 1600, and XTP II CrossPoint 3200) 95 watts (XTP II CrossPoint 6400) |
| No PoE..... | 35 watts |
| XTP CP 4o 4K | |
| PoE | 75 watts (XTP CrossPoint 1600, XTP CrossPoint 3200, XTP II CrossPoint 1600, and XTP II CrossPoint 3200) 90 watts (XTP II CrossPoint 6400) |
| No PoE..... | 21 watts |
| Product weight | 2.0 lbs (0.9 kg) |
| Regulatory compliance..... | 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.

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