

# 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 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 ..... Refer to XTP endpoints  
 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 at [www.extron.com/4Kdatastrate](http://www.extron.com/4Kdatastrate) to determine video parameters supported by this data rate.

### Video – XTP CP 4i 4K, XTP CP 4o 4K

Gain ..... Unity  
 Resolution range ..... Up to 2560x1600 @ 60 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 (600 MHz for 4K rates with 4:2:0 chroma subsampling)  
 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 96/24, DTS-HD High Res, DTS-HD Master  
 Audio™, up to 8 ch PCM

### 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 ( $\pm 5$ 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	
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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