

Specifications

XTP II CrossPoint® HD 8K Boards

TRUE 8K specification

Max. 8K Capabilities			
Resolution	Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
7680x4320	60 Hz	4:2:0	10 bit
	30 Hz	4:4:4	
Max. 4K Capabilities			
Resolution	Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096x2160	60 Hz	4:4:4	12 bit
3840x2160			
3840x2160	120 Hz		10 bit

Supports uncompressed and compressed rates up to 40.1 Gbps.

Frame rate¹ 24, 25, 30, 50, 60, or 120 fps
 Chroma sampling¹ 4:4:4, 4:2:2, or 4:2:0
 Color bit depth¹ 8, 10, or 12 bits per color
 Signal type HDMI 2.1, HDCP 2.3
 Max. video data rate 40.1 Gbps

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

Video - XTP II CP 4i HD 8K, XTP II CP 4o HD 8K

NOTE: Support for uncompressed 8K/30 at 4:4:4 color sampling requires installation in an XTP II CrossPoint frame.

NOTE: * Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input and output.

NOTE: Extron strongly recommends compatibility testing while designing, and before installing, any 3D or HDR (high dynamic range) system. There are several unique 3D and HDR formats in use by source devices and display manufacturers. The level of 3D and HDR 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 8K (7680x4320) @ 60 Hz, 5K (5120x2880) @ 60 Hz, 4K (4096x2160) @ 60 Hz, 4K (3840x2160) @ 120 Hz, UHD (3840x2160) @ 60 Hz
 Signal type Single-link HDMI (or DVI-D*)
 Digital video RGB digital video or Y, Cr, Cb digital component video (HDMI), actively buffered (supports all single-link DVI (if using an optional adapter) and HDMI standards from 640x480 @ 60 Hz to 7680x4320 @ 60 Hz)
 EDID and DDC Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards. EDID and DDC signals are actively buffered.

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HDCP	Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI standards
HPD	Supports hot plug detection (HPD) of display as a pass-through signal.
Maximum data rate	40.1 Gbps
Maximum pixel clock.....	1190 MHz
Standards	DVI 1.0, HDMI 2.1, HDCP 2.3
Video format	HDMI and DVI
HDR	HDR10, HDR10+, and Dolby Vision

Video input – XTP II CP 4i HD 8K, XTP II CP 4o HD 8K

Number/signal type.....	4 HDMI 2.1 links
Connectors	4 female HDMI type A
Equalization	Automatic

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.

Horizontal frequency	15 kHz to 270 kHz for resolutions up to 40.1 Gbps
Vertical frequency.....	24 Hz to 240 Hz for resolutions up to 40.1 Gbps
Peripheral device power.....	12 VDC, 125 mA per input
Connectors	(4) 3.5 mm captive screw connectors, 2-pole

Video output – XTP II CP 4o HD 8K

Number/signal type.....	4 HDMI 2.1 links
Connectors	4 female HDMI type A
Re-clocking.....	Automatic
Peripheral device power.....	5 VDC, 250 mA per output

Audio input – XTP II CP 4i HD 8K

Number/signal type.....	4 analog stereo, balanced/unbalanced or 4 digital audio, de-embedded from HDMI
Connectors	(4) 3.5 mm captive screw connector, 5-pole 4 female HDMI type A (shared with video input)
Supported formats — Pass through	
HDMI connector	LPCM up to 7.1/24-bit/192 kHz, Dolby® Digital EX, Dolby Digital Plus™, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0, Dolby TrueHD, Dolby Atmos™, DTS-HD Master Audio, DTS-X, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS-Digital Surround 5.1, DTS 2-Channel
Analog connector	Analog stereo
Impedance.....	>10k ohms unbalanced/balanced, DC coupled
Nominal level.....	+4 dBu (1.228 Vrms)
Maximum level	+21 dBu balanced, +15 dBu unbalanced
Input gain adjustment.....	-18 dB to +18 dB, adjustable per input, default = 0 dB

Audio output – XTP II CP 4o HD 8K

Number/signal type.....	4 analog stereo, balanced/unbalanced or 4 digital audio, embedded with HDMI
Connectors	(4) 3.5 mm captive screw connector, 5-pole 4 female HDMI type A (shared with video output)
Supported formats — Pass through	
HDMI connector	LPCM up to 7.1/24-bit/192 kHz, Dolby® Digital EX, Dolby Digital Plus™, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0, Dolby TrueHD, Dolby Atmos™, DTS-HD Master Audio, DTS-X, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS-Digital Surround 5.1, DTS 2-Channel
Analog connector	Analog stereo
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error.....	±0.1 dB channel to channel
Maximum level (Hi-Z).....	>+21 dBu, balanced or unbalanced at 1% THD+N

