

## Specifications

### XTP CrossPoint® CP 12G-SDI I/O Board

#### 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	4:2:2	10 bit
3840 x 2160 at 60 Hz		

Frame rate<sup>1</sup> ..... 23.97, 24, 29.97, 30, 50, 59.94 and 60 fps  
 Chroma sampling<sup>1</sup> ..... 4:4:4, 4:2:2, and 4:2:0  
 Color bit depth<sup>1</sup> ..... 8 or 10 bits per color  
 Signal type ..... 6G-SDI, 12G-SDI  
 Max. video data rate ..... 11.88 Gbps per 12G-SDI connection

**NOTE:** <sup>1</sup>Subject to the maximum data rate limit. Use our calculator (<http://www.extron.com/product/videotools.aspx>) to determine video parameters supported by this data rate.

#### Video

Number/signal type ..... (4) 12G-SDI, 6G-SDI, 3G-SDI, SDI, and HD-SDI digital video signals  
 Connectors ..... 4 female BNC, 4 female BNC loop-through (input card only), 4 female HDMI (input card only)  
 Nominal level ..... 0.8 Vp-p  
 Impedance ..... 75 ohms  
 Horizontal frequency ..... 15 kHz to 135 kHz  
 Vertical frequency ..... 24 Hz to 60 Hz  
 Resolution range ..... 720p, 1080i, 1080psf, 1080p, and 2K (2048x1080), 4096x2160p @30 Hz 4:2:2 10-bit, and 2160p @ 60Hz 4:2:2 10-bit  
 Return loss ..... ≥15 dB @ 5 MHz to 1.5 GHz  
 Input cable equalization ..... Automatic for up to -30 dB of cable loss  
     12G-SDI ..... 70 m (230') using RG7 cable  
     6G-SDI ..... 100 m (330') using RG6 cable  
     3G-SDI ..... 188 m (618') using RG6 cable  
     HD-SDI ..... 258 m (847') using RG6 cable  
 Operation standards ..... SMPTE 292M, SMPTE 424M, SMPTE ST-2081, SMPTE ST-2082, SMPTE 272M, SMPTE 299M, ITU-R BT.1120  
 Auto data rate lock ..... Yes

#### Audio

Frequency response ..... 20 Hz to 20 kHz ±0.5 dB  
 THD + Noise ..... <0.1% @ 1 kHz, 20 kHz bandwidth at nominal level  
 S/N ..... >90 dB, at maximum output (unweighted)  
 Stereo channel separation ..... >80 dB @ 1 kHz

# Specifications • XTP CrossPoint® CP 12G-SDI I/O Board (Continued)

## Audio input

Number/signal type.....	4 SDI embedded AES3 audio (SMPTE 272M, SMPTE 299M)
Connectors.....	4 female BNC
Impedance.....	10k ohms unbalanced, >20k ohms balanced
Nominal level.....	+4 dBu (1.23 Vrms), -10dBv (316 mVrms), adjustable
Maximum level.....	+21 dBu (balanced) +15 dBu (unbalanced)
Input gain adjustment.....	-18 dB to +24 dB, adjustable per input; default = 0 dB

**NOTE:** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

## Audio output

Number/signal type.....	4 SDI embedded AES3 audio (SMPTE 272M, SMPTE 299M) 4 stereo/mono, balanced/unbalanced
Connectors.....	4 female BNC (4) 5 pole captive screw
Impedance.....	10k ohms unbalanced, >20k ohms balanced
Maximum level.....	+21 dBu (balanced) +15 dBu (unbalanced)
Output volume range.....	0 dB to -100 dB in 1.0 dB steps

## General

Power.....	Supplied by XTP CrossPoint or XTP II CrossPoint enclosure
Power consumption.....	TBD
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 ±10%.

**NOTE:** Specifications are subject to change without notice.

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