

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 rate¹ 23.97, 24, 29.97, 30, 50, 59.94 and 60 fps
 Chroma sampling¹ 4:4:4, 4:2:2, and 4:2:0
 Color bit depth¹ 8 or 10 bits per color
 Signal type 6G-SDI, 12G-SDI
 Max. video data rate 11.88 Gbps per 12G-SDI connection

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (www.extron.com/8KdataRate) 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
 Level mapping Supports level A mapping
 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

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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.....	37.2 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 ±10%.

NOTE: Specifications are subject to change without notice.

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