

Specifications

DA4 12G HD-SDI

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 ¹	24, 25, 30, 50, or 60 fps
Chroma sampling ¹	4:4:4, 4:2:2, and 4:2:0
Color bit depth ¹	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 (<http://www.extron.com/product/videotools.aspx>) to determine video parameters supported by this data rate.

Video

Signal type	SDI, HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI digital video
Gain	Unity
Resolution	8 or 10 bits, automatic
Operation standards	SMPTE-259M, SMPTE-292M, SMPTE-424M, SMPTE-372M, SMPTE ST-2081, SMPTE 2082, ITU-RBT.601, ITU-RBT.1120
Auto data rate lock	Yes
Latency	10 ns
Level mapping	Supports both level A and level B mapping (3G-SDI and 6G-SDI)
Bit depth	
12G-SDI	Supports up to 10 bits
6G-SDI	Supports up to 10 bits
3G-SDI	Supports up to 12 bits
HD-SDI	Supports up to 12 bits
SDI	Supports up to 12 bits

Video input

Number/signal type	1 single link SDI, HD-SDI, 3G-SDI, 6G-SDI, 12G-SDI digital component video
Connectors	1 female BNC
Nominal level	0.8 Vp-p
Minimum/maximum levels	0.5 Vp-p to 1 Vp-p with no offset
Impedance	75 ohms
Return loss	≥15 dB @ 5 MHz to 2.97 GHz
DC offset (max. allowable)	5 V
Input coupling	AC

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Equalization	Automatic for up to -30 dB of cable loss
12G-SDI	70 meters (230 feet)
6G-SDI	90 meters (295 feet)
3G-SDI	180 meters (590 feet)
HD-SDI	240 meters (787 feet)
SDI	300 meters (984 feet)

NOTE: Transmission distance will vary depending on the signal resolution, the type of cable, source and display used in the system.

Video output

Number/signal type.....	4 single link SDI, HD-SDI, 3G-SDI, 6G-SDI, 12G-SDI digital component video
Connectors	4 female BNC
Re-clocking.....	Automatic for 270 Mbps, 1.485 Gbps, 2.97 Gbps, 5.94 Gbps, and 11.88 Gbps (bypassed for other rates)
Nominal level.....	0.8 Vp-p
Minimum/maximum levels	0.5 Vp-p to 1 Vp-p
Impedance.....	75 ohms
Return loss	≤25 dB @ 100 MHz
DC offset	±5 mV with input at 0 offset

Audio

Audio channels	Supports up to 16 channels
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General

External power supply.....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 0.5 A, 6 watts
Power input requirements	12 VDC, 0.2 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, unvented
Mounting	
Rack mount.....	Yes, with optional 1U rack shelf or with back of the rack mounting kit
Furniture mount	Yes, with optional under desk mounting kit
Enclosure type	Metal
Enclosure dimensions	1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 11 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight	0.33 lbs (0.15 kg)
Regulatory compliance.....	CE, CUL, UL, FCC Class A, VCCI, AS/NZS, ICES
Warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

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