

## 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 60 Hz	4:2:2	10 bit
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz	4:4:4	12 bit
3840 x 2160 at 30 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, 10, or 12 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 ([www.extron.com/8Kdatarate](http://www.extron.com/8Kdatarate)) 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, 10, or 12 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

## Specification • DA4 12G HD-SDI (Continued)

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](http://www.extron.com).

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