

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 60 Hz	4:4:4	8 bit
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	12 bit
3840 x 2160 at 60 Hz		

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.

Routing	4x2 to 8x8 matrix
Maximum data rate	18 Gbps (6 Gbps per color)
Maximum pixel clock.....	600 MHz
Resolution range.....	Up to 1920x1200 or 1080p @ 60 Hz, 12 bit color 4K (4096x2160) @ 60 Hz (4:4:4 color space) UHD (3840x2160) @ 60 Hz (4:4:4 color space)
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI 1.4 and 2.0, HDCP 1.4 and 2.2, CEA-861E

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 Application Engineer for more information.

Number/signal type.....	4 or 8 HDMI digital video (HDCP compliant)
Connectors	4 or 8 female HDMI type A

Specification • DXP HD 4K PLUS Series (Continued)

Video output

Number/signal type.....	2, 4, or 8 HDMI digital video (HDCP compliant)
Connectors	2, 4, or 8 female HDMI type A
Power for active cables.....	4.2 or 8.4 W total power for all HDMI ports 1.1 W per HDMI port, max.
Peripheral device power.....	250 mA per HDMI output

Audio — DXP 42, 44, 84, 88 HD 4K PLUS

Supported formats — Pass through

HDMI connectors	LPCM up to 7.1/24-bit/96 kHz, Dolby ATMOS, Dolby TrueHD, Dolby Digital Plus, Dolby Digital EX, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0, DTS-HD Master Audio, DTS-HD, DTS ES Discrete 6.1, DTS ES Matrix 6.1, DTS Digital Surround 5.1, DTS 2 Channel
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Supported formats — S/PDIF (DXP 44, 84, 88 HD 4K PLUS only)

LPCM.....	2-channel, 16/20/24 bit depths, 32/44.1/48 kHz sampling
Dolby Digital (AC-3)	6-channel, 640k mbr, 32/44.1/48 kHz sampling
DTS.....	7-channel, 1536k max bit rate, 44.1/48 kHz sampling

Audio — individual audio groups (HDMI)

DXP 44, 84, 88 HD 4K PLUS Series

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response.....	20 Hz to 20 kHz, ± 0.2 dB
THD + Noise.....	0.03% @ 20-20 kHz at nominal level
S/N	>105 dB at maximum output (unweighted)
Crosstalk	<-90 dB @ 20 Hz to 20 kHz, fully loaded
Stereo channel separation	>80 dB @ 20 Hz to 20 kHz

DXP 42 HD 4K PLUS

Gain	Unbalanced output: -6 dB; balanced output: 0 dB
Frequency response.....	20 Hz to 20 kHz, ± 0.5 dB
THD + Noise.....	<0.01% @ 20-20 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Crosstalk	≤ -80 dB @ 1 kHz, fully loaded
Stereo channel separation	>80 dB @ 1 kHz

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV $\approx$ 2 dBu
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Audio output

Number/signal type.....	2, 4, or 8 HDMI, embedded 2 stereo, balanced or unbalanced 2 S/PDIF (DXP 44, 84, 88 HD 4K PLUS only)
Connectors	
HDMI.....	2, 4, or 8 female
Stereo	(2) 3.5 mm captive screw, 5 pole
S/PDIF (DXP 44, 84, 88 HD 4K PLUS only)	2 female RCA
Impedance	
Stereo audio.....	50 ohms unbalanced, 100 ohms balanced
S/PDIF.....	75 ohms (DXP 44, 84, and 88 HD 4K PLUS only)
Gain error.....	± 0.1 dB channel to channel
D/A conversion	24-bit, 192 kHz
Maximum level (Hi-Z)	
DXP 44, 84, and 88 HD 4K PLUS	>+21 dBu, balanced, or +15 dBu, unbalanced
DXP 42 HD 4K PLUS	>+12 dBu, balanced, or +6 dBu, unbalanced

Specification • DXP HD 4K PLUS Series (Continued)

Output volume range

DXP 44, 84, and 88 HD 4K PLUS	-100 to 0 dB (control 0 to 100 in 1.3 dB steps)
DXP 42 HD 4K PLUS	-90 to 0 dB (control 0 to 90 in 1 dB steps)

Communications

Serial control port	1 bidirectional RS-232
Serial control connector	(1) 3.5 mm captive screw, 3 pole (rear panel)
Baud rate and protocol	300 to 115200 baud; 7 or 8 data bits; 1 or 2 stop bits; no parity, even, odd, mark, or space parity Defaults: 9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = Gnd
USB control port	1 front panel female USB mini-B
USB standards	USB 2.0, low speed
Ethernet control port	1 female RJ-45 connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, DHCP, DNS, HTTP, HTTPS, ICMP (ping), NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, Telnet, UDP/IP
Ethernet default settings	Link speed and duplex level: autodetected IP address: 192.168.254.254 Subnet mask: 255.255.0.0 Gateway: 0.0.0.0 DHCP: Off
Web server	Up to 200 simultaneous sessions 40.0 MB nonvolatile user memory
Program control	Extron Product Control Software (PCS) Extron Simple Instruction Set™ (SIS™) Microsoft® Edge®, Telnet

General

Power supply

DXP 44, 84, 88 HD 4K PLUS Series	Internal Input: 100-240 VAC, 50-60 Hz
DXP 42 HD 4K PLUS	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts

Power consumption (full load)

DXP 42 HD 4K PLUS	
Device	16 watts
Device with power supply ..	17.5 watts
DXP 44 HD 4K PLUS	20.4 watts
DXP 88 HD 4K PLUS	30.8 watts

Power consumption (power save) .. 10.8 watts (DXP 44, 84, and 84 HD 4K PLUS Series only)

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

DXP 44, 84, 88 HD 4K PLUS ..	Fans, air flows from right to left (as viewed from front panel)
DXP 42 HD 4K PLUS	Convection, vents on top and sides

Specification • DXP HD 4K PLUS Series (Continued)

Thermal dissipation (full load)

DXP 42 HD 4K PLUS

Device 51.2 BTU/hr

Device with power supply .. 56.3 BTU/hr

DXP 44 HD 4K PLUS

115 VAC, 60 Hz 64.9 BTU/hr

240 VAC, 50 Hz 65.8 BTU/hr

DXP 88 HD 4K PLUS

115 VAC, 60 Hz 96.8 BTU/hr

240 VAC, 50 Hz 97.3 BTU/hr

Mounting

DXP 42 HD 4K PLUS

Rack mount Yes, with optional rack shelf kit

Back of the rack mountable with optional back-of-the-rack mounting kit

Furniture mount Yes, with optional under-desk mounting kit

DXP 44, 84, 88 HD 4K PLUS Series

Rack mount Yes, with included brackets

Enclosure type Metal

Enclosure dimensions

DXP 44, 84, 88 HD 4K PLUS Series

1.75" H x 17.5" W x 9.5" D (1U high, full rack wide)

(4.4 cm H x 44.5 cm W x 24.1 cm D)

(Depth excludes connectors and knobs. Width excludes rack ears.)

DXP 42 HD 4K PLUS 11.0" H x 8.75" W x 8.0" D (half rack wide)

(44 mm H x 222 mm W x 152 mm D)

(Depth excludes connectors.)

Product weight

DXP 42 HD 4K PLUS 1.5 lbs (0.7 kg)

DXP 44 HD 4K PLUS 5.2 lbs (2.3 kg)

DXP 84 HD 4K PLUS 5.3 lbs (2.4 kg)

DXP 88 HD 4K PLUS 5.5 lbs (2.5 kg)

Regulatory compliance..... CE, C-tick, c-UL, FCC Class A, ICES, PSE, UL, VCCI, RoHs, and WEEE

Product warranty 3 years parts and labor

Everlast power supply warranty..... 7 years parts and labor

NOTE: Specifications are subject to change without notice.

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

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