

Specifications

DXP HD 4K PLUS Series

TRUE 4K specifications

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		12 bit
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	
3840 x 2160 at 60 Hz		

Frame rate¹ 24, 25, 30, 50, or 60 fps
 Chroma sampling¹ 4:4:4, 4:2:2, or 4:2:0
 Color bit depth¹ 8, 10, or 12 bits per color
 Signal type HDMI 2.0, HDCP 2.2
 Max. video data rate 18 Gbps (6 Gbps per color)

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

Video

Routing 4x4 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: *Appropriate DVI-D to HDMI cables or adapters are required for DVI signal input and output.

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.

Video input

Number/signal type 4 or 8 HDMI digital video (HDCP compliant)
 Connectors 4 or 8 female HDMI type A
 Peripheral device power 250 mA per HDMI output

Video output

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

Audio

Supported formats — Pass through

HDMI connectors	LPCM up to 7.1/24-bit/192 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

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)

Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ± 0.2 dB
THD + Noise.....	0.03% @ 1 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

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

Audio output

Number/signal type.....	4 or 8 HDMI, embedded 2 stereo, balanced or unbalanced 2 S/PDIF
Connectors	
HDMI.....	4 or 8 female
Stereo	(2) 3.5 mm captive screw, 5 pole
S/PDIF.....	2 female RCA
Impedance	
Stereo audio.....	50 ohms unbalanced, 100 ohms balanced
S/PDIF.....	75 ohms
Gain error.....	± 0.1 dB channel to channel
D/A conversion	24-bit, 192 kHz
Maximum level (Hi-Z).....	>+21 dBu, balanced, or +15 dBu, unbalanced
Output volume range	0 to -100 dB in 1.3 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	DHCP, DNS, HTTP, HTTPS, ICMP, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP, ARP, Telnet
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® Internet Explorer®, Telnet

General

Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption (full load)	65 watts
Power consumption (power save) ..	25.5 watts
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	Fans, air flows from right to left (as viewed from front panel)
Thermal dissipation (full load)	
115 VAC, 60 Hz.....	TBD BTU/hr
240 VAC, 50 Hz.....	TBD BTU/hr
Mounting	
Rack mount.....	Yes, with included brackets
Enclosure type	Metal
Enclosure dimensions	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.)
Product weight	TBD
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
Compliances	CE, C-Tick, FCC Class A, ICES, VCCI
Environmental.....	Complies with the appropriate requirements of RoHS and WEEE.
MTBF.....	30,000 hours
Warranty	3 years parts and labor

NOTE: Specifications are subject to change without notice.

NOTE: All nominal levels are at ±10%.

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

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