

Specifications

DTP2 T 203

TRUE 4K specification

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
3840 x 2160 at 60 Hz	4:4:4	8 bit
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	
3840 x 2160 at 60 Hz		
4096 x 2160 at 60 Hz	4:2:2	
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 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 type¹ HDMI 2.0b, HDCP 2.2
 Max. video data rate¹ 18 Gbps (6 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (www.extron.com/4KdataRate) to determine video parameters supported by this data rate.

Video

HDMI input

Maximum data rate 18 Gbps (6 Gbps per color)
 Maximum pixel clock 600 MHz
 Resolution range Up to 2560x1600 @ 60 Hz or UHD (3840x2160) @ 60 Hz, with 4:4:4 chroma subsampling
 Color bit depth 8, 10, 12 bits — subject to the maximum data rate limit
 Formats RGB and YUV digital video
 Standards DVI 1.0; HDMI 1.4, 2.0b; HDCP 1.4, 2.2; CEA-861E

DisplayPort input

Maximum data rate 17.28 Gbps (4.32 Gbps per channel)
 Maximum pixel clock 600 MHz
 Resolution range Up to 3840x2160 @ 60Hz or 3840x2160 @ 60 Hz with 4:4:4 chroma subsampling
 Color bit depth 8, 10, 12 bits — subject to the maximum data rate limit
 Formats RGB and YUV digital video
 Standards DisplayPort 1.2

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Video input – HDMI

Number/signal type.....	2 single-link HDMI (or DVI-D)
Connectors.....	2 female HDMI type A

Video input – DisplayPort

Number/signal type.....	1 DisplayPort
Connectors.....	1 female 20-pin DisplayPort
Input cable length	Up to 6 feet

Interconnection between transmitter and receiver

Connectors.....	1 female RJ-45 jack
Termination standards.....	TIA/EIA T568B
Signal transmission distance.....	Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 STP cable
Cable requirements.....	Solid conductor, 24 AWG or better
Cable recommendations.....	400 MHz bandwidth STP cable

NOTE: Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.

Audio

Gain.....	Unbalanced output: 0 dB; balanced output +6 dB
Frequency response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	0.03% @ 20 Hz to 20 kHz at maximum output
S/N.....	>90 dB at maximum output (15 dBu), balanced (unweighted)
Stereo channel separation.....	>80 dB @ 1 kHz to 20 kHz

Analog audio input

Number/signal type.....	1 stereo, unbalanced 3 digital embedded audio on HDMI and DP
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NOTE: Analog audio can be configured for embedding onto the digital video signal at the Transmitter. Embedded digital audio can be (configured) de-embedded from the digital video signal at the Receiver end.

Embedded digital audio source formats	2-ch PCM, PCM, Dolby Digital 2/0, Dolby Digital 2/0 Surround, Dolby Digital 5.1, Dolby Digital EX, DTS Digital Surround 5.1, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1
Connectors.....	(1) 3.5 mm stereo jack, 2 channel; tip (L); ring (R); sleeve (GND)
Impedance.....	>10k ohms, DC coupled
Nominal level.....	-10 dBV (316 mVrms)
Maximum level.....	+7 dBV, unbalanced

Control/remote – external device (pass-through, unidirectional or bidirectional)

Serial control port.....	1 RS-232, 3.5 mm captive screw connector, 3 pole, rear panel
Pin configuration.....	Pin 1 = Tx, Pin 2 = Rx, Pin 3 = GND
Baud rate and protocol.....	9600 baud rate, 8 data bits, 1 stop bit, no parity
USB control port.....	1 female mini USB, type B, front panel
USB standards.....	USB 2.0, high speed
Ethernet data rate	10/100Base-T, half/full duplex, with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet, SMTP
Program control.....	Extron's Simple Instruction Set (SIS™), Extron Product Configuration Software (PCS), Microsoft Internet Explorer, Telnet
Contact closure	(1) 3.5 mm captive screw connector, 4 pole
Pin configuration.....	Pin 1 = input 1 contact, Pin 2 = input 2 contact, Pin 3 = input 3 contact, Pin 4 = GND

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Tally output	(1) 3.5 mm captive screw connector, 4 pole
Pin configuration.....	Pin 1 = input 1 tally, Pin 2 = input 2 tally, Pin 3 = input 3 tally, Pin 4 = +5 V
Over DTP/HDBT RS-232/ IR pass through	Pin 1 = RS-232 Tx, Pin 2 = RS-232 Rx, Pin 3 = GND, Pin 4 = IR Tx, Pin 5 = IR Rx

General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 2.0 A, 24 watts
Power consumption	
Device	18.6 watts
Device and power supply	20.5 watts

NOTE: Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver or transmitter on the other end of the twisted pair cable.

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, vents on top side and sides
Thermal dissipation	
Device	62.5 BTU/hr
Device and power supply	68.8 BTU/hr
Enclosure type	Metal
Enclosure dimensions	1.0" H x 8.75" W x 6.0" D (1" high, half rack wide) 2.5 cm H x 22.2 cm W x 15.2 cm D (depth excludes connectors)
Product weight	1.1 lbs (0.5 kg)
Regulatory compliance.....	CE, c-UL, UL, C-tick, FCC Class A**, ICES, VCCI, KCC UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release, excluding the power supply
Product warranty	3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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

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