

Specifications

DTP T UWP 4K 232 D

TRUE 4K specifications

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096x2160 at 30 Hz	4:4:4	8 bit
3840x2160 at 30 Hz		

Frame rate¹ 24, 25, or 30 fps
 Chroma sampling¹ 4:4:4, 4:2:2
 Color bit depth¹ 8 bits per color
 Signal type DVI 1.0, HDMI 1.4, HDCP 1.4
 Maximum video data rate 10.2 Gbps (3.4 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (www.extron.com/8Kdata rate) to determine video parameters supported by this data rate.

Video

NOTE: *Appropriate DVI-D to HDMI cables or adapters are required for DVI signal input/output.

Maximum data rate
 HDMI 10.2 Gbps (3.4 Gbps per color)
 VGA 6.75 Gbps (2.25 Gbps per color)
 Maximum pixel clock
 HDMI 300 MHz
 VGA 165 MHz
 Resolution range Up to 1920x1200 or 1080p @ 60 Hz; 8 bit color depth
 2048x1080 (2K) @ 60 Hz
 4K (4096x2160) @ 30 Hz or 4K UHD (3840 x 2160) @ 30 Hz; 8-bit color
 Formats RGB digital video
 Standards DVI 1.0, HDMI, HDCP 1.2, EDID 1.3, CEA-861E

Video input — HDMI

Number/signal type 1 single link HDMI (or DVI-D*) input
 Connectors 1 female HDMI type A

Video input — VGA

Number/signal type 1 analog RGBHV
 Connectors 1 female 15-pin HD (RGB)
 Nominal level 0.7 Vp-p for RGB
 Minimum/maximum levels 0.3 V to 1.45 Vp-p
 Impedance 75 ohms
 Horizontal frequency 15 kHz to 130 kHz
 Vertical frequency 30 Hz to 150 Hz
 Return loss <-30 dB @ 5 MHz
 DC offset (max. allowable) 250 mV

Interconnection between transmitter and receiver

Signal type.....	1 DTP 230 output
Connectors.....	1 female RJ-45
Termination standards.....	TIA/EIA T568B
Signal transmission distance	
1080p @ 60 Hz	Up to 230' (70 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
2048x1080p @ 60 Hz.....	Up to 130' (40 m) using STP cable or XTP DTP 24 cable
4K/UHD @ 30 Hz	Up to 130' (40 m) using STP cable or XTP DTP 24 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

Audio input

Number/signal type	
Analog audio (over DTP)	2 stereo, unbalanced
Digital audio.....	1 embedded digital audio on DTP
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.....	(2) 3.5 mm stereo jack, 2 channel; tip (L), ring (R), sleeve (ground)
Impedance.....	>10k ohms, DC coupled
Nominal level.....	-10 dBV (316 mVrms)
Maximum level.....	+7 dBu, unbalanced

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

Audio output

Number/signal type	
Analog audio (over DTP)	1 stereo, unbalanced
Digital audio.....	1 embedded digital audio on DTP
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 female RJ-45 jack

Communications — transmitter

Serial control port.....	RS-232 via (1) 3.5 mm, 5-pole captive screw connector for RS-232 control (± 5 V) and contact closure input switching
Baud rate and protocol	9600 baud rate, 8 data bits, 1 stop bit, no parity
Contact closure remote control	(1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port)
USB control port.....	1 front panel female mini USB type B
USB standards	USB 2.0, high speed
Program control.....	Extron Simple Instruction Set (SIS™)

Specifications • DTP T UWP 4K 232 D (Continued)

Communications — external device (pass-through)

Serial control pass-through port	Bidirectional RS-232
Connector	
DTP output	(1) 3.5 mm captive screw connector, 5-pole
Baud rate and protocol	300 to 115200 baud, 8 or 7 data bits, 1 or 2 stop bits, non-parity (default), even or odd parity

NOTE: Protocol is mirrored between the connected DTP 230 or DTP 330 endpoints and the "Over DTP" ports on the DTP T UWP 4K 232 D. Signals from a control device pass into each "Over DTP" port, are embedded with the DTP signal, and sent to the individual endpoints for control of remote sink or source devices.

General

Power supply	External
	Input: 100-240 VAC, 50-60 Hz
	Output: 12 VDC, 1.5 A, 18 watts
Power consumption	
Device	3.5 watts
Device and power supply	4.5 watts
Remote power budget	12 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, vented
Thermal dissipation	
Transmitter	
Device	11.7 BTU/hr
Device and power supply...	15.1 BTU/hr
Mounting	
Rack mount	Yes, with included rack ears
Enclosure type	Metal
Enclosure dimensions	
Faceplate	Two 2.60" H x 1.30" W x 0.20" D (66 mm H x 33 mm W x 6 mm D) (Fits the opening in a 2-gang decorator wallplate.)
Device	Two 2.70" H x 3.50" W x 1.90" D (69 mm H x 89 mm W x 48 mm D)

NOTE: *Height is 4.2" (10.4 cm) including mounting tabs.

Product weight	0.4 lbs (0.2 kg)
Regulatory compliance	AS/NZS, c-UL, C-tick, CE**, FCC Class A**, ICES, UL, VCCI
	Complies with the appropriate requirements of RoHS, WEEE

NOTE: **CE and FCC testing is conducted with STP cable.

Warranty	3 years parts and labor
Everlast power supply warranty	7 years parts and labor

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

NOTE: Specifications are subject to change without notice.

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