

Specifications

DTP T UWP 232 D

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

Video

Maximum data rate.....	6.75 Gbps (2.25 Gbps per color)
Maximum pixel clock.....	165 MHz
Resolution range.....	Up to 1920x1200 or 1080p @ 60 Hz; 8 bit color depth 2048x1080p @ 60 Hz (2K)
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
DTP signal	
Signal transmission distance....	Up to 230' (70 m) using shielded twisted pair (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 ≈ 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™)

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
IR pass-through control port	TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz
DTP output.....	(1) 3.5 mm captive screw connector, 2-pole

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

General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
Device	4.8 watts, 12 VDC
Device and power supply	6.3 watts, 100-240 VAC, 50-60 Hz

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	15.3 BTU/hr
Device and power supply...	20.1 BTU/hr
Mounting	
Rack mount.....	Yes, with included rack ears
Enclosure type	Metal
Enclosure dimensions	
Faceplate	Two 2.6" H* x 1.3" W x 0.2" D 6.6 cm H* x 3.3 cm W x 0.6 cm D (Fits the opening in a 2 gang decorator wallplate.)
Device	Two 2.7" H x 3.5" W x 1.9" D 6.9 cm H x 8.9 cm W x 4.8 cm D

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

Product weight	0.4 lbs (0.2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	c-UL, UL
EMI/EMC.....	CE**, C-tick, FCC Class A**, ICES, VCCI
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE

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

Warranty	3 years parts and labor
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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.

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