

Specifications

XTP T EU 202 and XTP T MK 202

NOTE: The XTP transmitters can be used with other Extron XTP products, with twisted pair cables connecting the units.

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

Video

Gain.....	Unity
Resolution range	
Digital	Up to 1920x1200*, 2K, or 1080p (HDTV) * reduced blanking
Analog.....	Up to 1920x1200* or 1080p (HDTV) * reduced blanking
Signal type.....	Single-link HDMI (or DVI-D*)
Digital video.....	RGB digital video (DVI and HDMI standards) or Y, Cr, Cb digital component video (HDMI), actively buffered (supports all single-link DVI (if using an optional adapter) and HDMI standards from 640x480 @ 60 Hz to 1900x1200 @ 60 Hz)
EDID and DDC	Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards. EDID and DDC signals are actively buffered.
HDCP	Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI standards
HPD	Supports hot plug detection (HPD) of display as a pass-through signal.
Maximum data rate.....	6.75 Gbps (2.25 Gbps per color)
Maximum pixel clock.....	165 MHz
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI, HDCP 1.1

Video input

Number/signal type.....	1 analog RGBHV 1 single link HDMI (DVI-D or DisplayPort*) input
Connectors.....	1 female 15-pin HD 1 female HDMI type A
Nominal level.....	0.7 Vp-p for RGB
Minimum/maximum levels.....	0.3 V to 1.45 V p-p
Impedance.....	75 ohms
Horizontal frequency	30 kHz to 100 kHz
Vertical frequency.....	24 Hz to 120 Hz

Interconnection between transmitter and receiver

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

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

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Audio

Gain	
Range	-18 dB to +24 dB
Default.....	Unbalanced output: 0 dB; balanced output +6 dB
Frequency response	20 Hz to 20 kHz, ± 0.05 dB
THD + Noise	0.01% @ 1 kHz at nominal level
S/N.....	>90 dB, at maximum output, balanced (unweighted)
Crosstalk	<-45 dB @ 20 kHz, -72 dB @ 1 kHz or below
Stereo channel separation.....	>80 dB @ 20 Hz to 20 kHz
Sampling rates.....	32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192 kHz
Bit depths	16, 20, 24 bit

Audio input

Number/signal type.....	1 analog stereo, unbalanced or 1 digital audio, embedded from HDMI
Connectors.....	1 female 3.5 mm mini audio jack 1 female HDMI type A (shared with video input)
Source formats	LPCM up to 7.1/24-bit/192 kHz, 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
Impedance.....	>10k ohms, unbalanced, DC coupled
Nominal level.....	+4 dBu (1.23 mVrms) balanced or -10 dBV (316 mVrms) unbalanced
Maximum level.....	+7 dBv unbalanced

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

Communications – transmitter

Serial control port.....	1 bidirectional RS-232: 1 rear panel 3.5 mm captive screw connector, 3 pole
Baud rate and protocol	9600 (default) to 115200 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = GND
USB control ports	1 side panel female mini USB B
USB standards	USB 2.0, low speed
Program control.....	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

Communications – external device (pass-through, unidirectional or bidirectional)

Serial control port input/output.....	RS-232 (± 5 V) via (1) 3.5 mm, 5 pole captive screw connector (uses 3 poles) (connector is shared with IR control port)
Serial control port output/input.....	1 set of proprietary signals on a female RJ-45 jack
Baud rates.....	Up to 115200 baud
Protocol.....	Data bits = 5 - 8 Stop bits = 1 or 2 Parity = odd, even, none Flow control = XON, XOFF, none
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = GND
IR control port.....	(1) 3.5 mm, captive screw connector, 5 pole (connector is shared with RS-232 control port) TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 40 kHz
IR control pin configuration	3 = GND, 4 = IR Tx, 5 = IR Rx

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General

Power supply	External Input: 100 to 240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
Power consumption	
Device	8.8 watts, 12 VDC
Device and power supply	10.7 watts, 100-240 VAC, 50-60 Hz

NOTE: Each XTP switcher, transmitter, receiver can be powered either locally by an external power supply or remotely using an optional power injector.

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +104 °F (0 to +40 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Thermal dissipation	
Device	29.9 BTU/hr
Device and power supply	36.3 BTU/hr
Mounting	
Furniture or wall mount	Yes, with a EU/MK 2-gang electrical junction box
Enclosure type	Metal
Enclosure dimensions	
XTP T EU 202	
Faceplate	3.2" H x 6.0" W x 0.5" D (2-gang) (8.1 cm H x 15.2 cm W x 1.4 cm D)
Device	1.9" H x 4.3" W x 1.4" D (4.9 cm H x 10.9 cm W x 3.5 cm D) (Depth excludes connectors. Fits some EU 2-gang boxes.)
XTP T MK 202	
Faceplate	3.4" H x 5.8" W x 0.5" D (2-gang) (8.6 cm H x 14.7 cm W x 1.4 cm D)
Device	1.9" H x 4.3" W x 1.4" D (4.9 cm H x 10.9 cm W x 3.5 cm D) (Depth excludes connectors. Fits some MK 2-gang boxes.)
Product weight	0.7 lbs (0.3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance.....	CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI Complies with the appropriate requirements of RoHS and WEEE.
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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

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