

# Specifications

## DTP DVI 301 Tx/Rx

**NOTE:** This product consists of a transmitter (DTP DVI 301 Tx) and a receiver (DTP DVI 301 Rx), sold separately, with twisted pair cables linking the transmitter and receiver.

**NOTE:** \*Appropriate DVI-D to HDMI cables or adapters are required for HDMI 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, 10, or 12 bit color depth
Formats .....	RGB and YCbCr digital video
Standards .....	DVI 1.0, HDMI

### Video input and loop-through — transmitter

Number/signal type .....	1 single link DVI-D (or HDMI*) input 1 single link DVI-D (or HDMI*) local loop-through
Connectors .....	2 female DVI-I

### Interconnection between transmitter and receiver

Connectors .....	2 female RJ-45 per unit for 2 cables connecting the transmitter and receiver TP1 output transmits digital video, embedded digital audio, RS-232, IR, and remote power. TP2 output transmits analog stereo audio.
Termination standards .....	TIA/EIA T568A or T568B
Signal transmission distance .....	330' (100 m) using CAT 5e/6/7 UTP or STP cable (24 AWG or better)

### Video output — receiver

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

### Audio

Gain .....	Unbalanced output: 0 dB; balanced output +6 dB
Frequency response .....	20 Hz to 20 kHz, $\pm 0.05$ 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 .....	1 PC level stereo, unbalanced
Connectors .....	(1) 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 dBV (unbalanced)

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

## Audio output

Number/signal type .....	1 stereo (2 channel), balanced/unbalanced
Connectors .....	(1) 3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	±0.1 dB channel to channel
Maximum level (600 ohm).....	>+15 dBu, balanced

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

Serial control port input/output	
Transmitter .....	RS-232 via (1) 3.5 mm, 5 pole captive screw connector for RS-232 control (±5 V) (connector is shared with IR control port)
Receiver .....	1 set of proprietary signals on a female RJ-45 jack
Serial control port output/input	
Transmitter .....	1 set of proprietary signals on a female RJ-45 jack
Receiver .....	RS-232 via a 3.5 mm, 3 pole captive screw connector
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 configuratio .....	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 60 kHz
IR control pin configuratio .....	3 = GND, 4 = IR Tx, 5 = IR Rx

## General

Power supply.....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption .....	7.6 watts, 12 VDC, total, for both transmitter and receiver

**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, no vents
Mounting	
Rack mount .....	Yes, with optional 1U high rack shelf
Furniture mount .....	Yes, with optional under-desk mounting kit
Enclosure type .....	Metal
Enclosure dimensions	
Transmitter .....	1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
Receiver .....	1.0" H x 4.3" W x 6.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 15.2 cm D) (Depth excludes connectors.)
Product weight	
Transmitter .....	0.5 lbs (0.3 kg)
Receiver .....	1.0 lb (0.5 kg)
Shipping weight.....	3 lbs (2 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety ..... CE, c-UL, UL

EMI/EMC ..... CE\*\*, C-tick, FCC Class A\*\*, ICES, VCCI

**NOTE:** \*\*CE and FCC testing is conducted with STP (shielded twisted pair) cable.

Warranty ..... 3 years parts and labor

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

**NOTE:** Specifications are subject to change without notice.

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