

DTP DVI 301

LONG DISTANCE DVI TWISTED PAIR EXTENDER

- ▶ Transmits single-link DVI-D plus RS-232 and IR signals over a single CAT 5-type cable
- ▶ Extends 1920x1200 and 1080p/60 deep color up to 330 feet (100 meters)
- ▶ Optimized for use with standard CAT 5e cable
- ▶ Transmits separate analog stereo audio signals
- ▶ Bidirectional RS-232 and IR control pass-through
- ▶ DVI input loop-through
- ▶ Supports DDC and HDCP transmission
- ▶ DDC routing to local or remote display
- ▶ Remote powering of transmitter or receiver
- ▶ HDMI 1.3 compatible
- ▶ LED indicator for signal presence and power
- ▶ RJ-45 signal and link status LED indicator for DTP port
- ▶ Compatible with DTP HDMI 301
- ▶ Supports HDMI signals when used with optional Extron DVI-HDMI adapters
- ▶ 1" (2.5 cm) high, quarter rack width metal enclosures
- ▶ Energy-efficient external universal power supply included with Tx models



The Extron DTP DVI 301 long distance extender sends single link DVI-D video plus bidirectional control signals up to 330 feet (100 meters) on a single CAT 5-type cable. Local monitor support enables simplified PC integration. The DTP DVI 301 maintains a completely digital signal path to deliver superior image quality of high resolution computer-video and HDTV signals throughout the system.



Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **DTP DVI 301** is a long distance extender for transmission of single link DVI-D video and bidirectional control signals over a single CAT 5-type cable. For added flexibility, separate stereo audio signals can be sent via a second twisted pair cable. It is capable of extending 1920x1200 and 1080p/60 deep color signals up to 330 feet (100 meters). DDC communication of EDID and HDCP is continuously maintained to ensure direct compatibility and optimal signal transmission between devices.

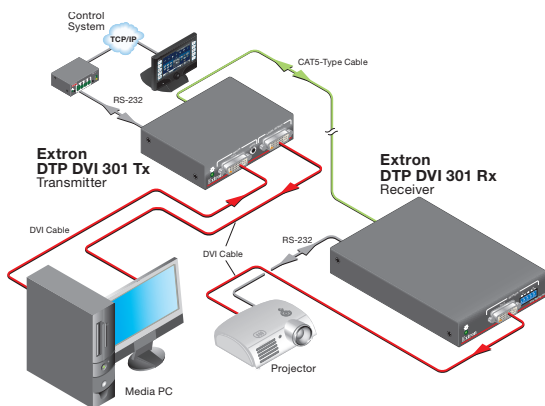
The DTP DVI 301 can be used as a point-to-point solution or integrated with switching equipment to extend inputs or outputs to remote locations. The transmitter and receiver set supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system, providing remote control to source equipment or displays.

The transmitter includes a buffered DVI loop-through for connection of a local computer monitor. The compact transmitter and receiver are fully compatible with HDMI signals when used with optional DVI-HDMI adapters from Extron. These integrator-friendly features, combined with its capability to remotely power either unit, make the DTP DVI 301 ideal for extending digital video and bidirectional control in space-challenged environments.

FEATURES

- ▶ Transmits single link DVI-D plus RS-232 and IR signals over a single CAT 5-type cable
- ▶ Extends 1920x1200 and 1080p/60 deep color up to 330 feet (100 meters)
- ▶ Optimized for use with standard CAT 5e cable
- ▶ Transmits separate analog stereo audio signals
- ▶ DVI input loop-through
- ▶ Supports DDC and HDCP transmission
- ▶ Remote powering of transmitter or receiver

APPLICATION DIAGRAM



SPECIFICATIONS

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	
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	
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.	
Signal transmission distance	330' (100 m) using CAT 5e/6 UTP or STP cable	
VIDEO OUTPUT – RECEIVER		
Number/signal type	1 single link DVI-D (or HDMI*)	
AUDIO		
Gain	Unbalanced output: 0 dB; balanced output +6 dB	
Frequency response	20 Hz to 20 kHz, ±0.05 dB	
AUDIO INPUT		
Number/signal type	1 PC level stereo, unbalanced	
AUDIO OUTPUT		
Number/signal type	1 stereo (2 channel), balanced/unbalanced	
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)	
Baud rates	Up to 115200 baud	
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	
GENERAL		
Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts	
Power consumption	12.0 watts, 12 VDC, total, for both transmitter and receiver	
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.)	
Model	Version Description	Part number
DTP DVI 301 Tx	Transmitter	60-1213-12
DTP DVI 301 Rx	Receiver	60-1213-13

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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