



DVI extender over CAT5 ... CAT7 twisted pair cable



Lightware TP series transceivers are DVI over twisted pair extenders which transmit single link DVI-D signals over a single Cat5 CAT6 or CAT7 cable. Accessible distances depend on the used cable quality and signal resolution. DVI-TP-TX200 and DVI-TP-TX300 transmitters include an EDID Manager and built-in DVI distribution amplifier for local monitor output. Only one CAT5 cable is needed for DVI signal transmission, there is no need for second CAT cable. Next to local DVI output TX200 provides one and TX300 provides two identical CATx outputs. TX300 allows transmission of DVI signal to three different remote displays including local monitor.

DVI-TP-RX100 is a high performance twisted pair receiver with Automatic and precise Manual cable EQ adjustment. It incorporates a unique TMDS reclocker function, that eliminates pixel errors and noise of the video signal.

All transceivers can be rack mounted or used standalone. The units are compatible with MX-DVI-TP-IB and MX-DVI-TP-OB cards which fit in Lightware matrix router frames.

Applications

- Digital Signage
- Fixed installations
- Conference rooms, classrooms
- Custom resolution and refresh rate
EDID emulation
- Ground Loop isolation

Features

- One Cable Technology
- DVI reclocking
- 50 meter long DVI signal transmission at 1920x1080p resolution
- 80 meter DVI signal transmission at 1280x1024 resolution
- Advanced EDID Management
- 50 programmable EDID memory
- Local monitor output
- Locking DC connector for secure connection
- Source detection and Monitor detection LED

Options

1U rack shelf

Connectors

Input / Output DVI:	29 pole DVI-I connector
Input / Output twisted pair:	CAT6 RJ45 connector
Power:	locking DC connector

Specifications

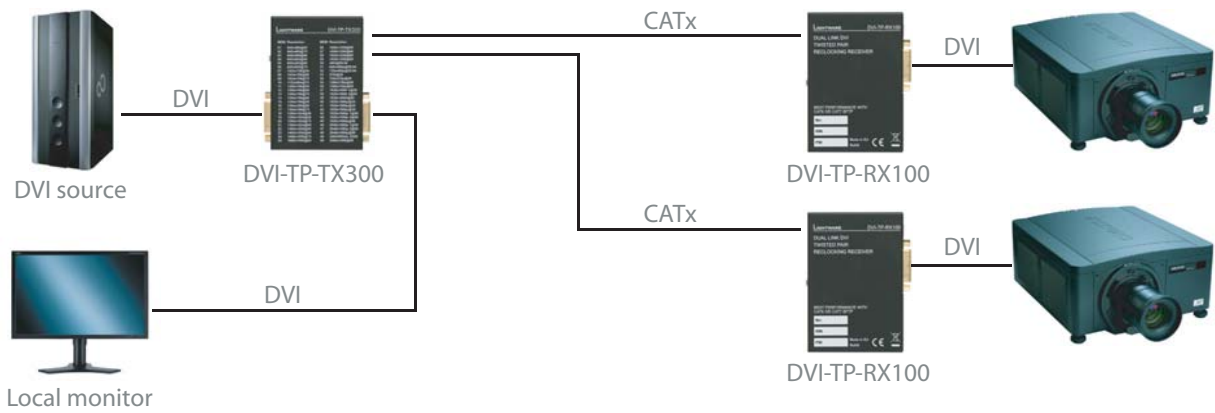
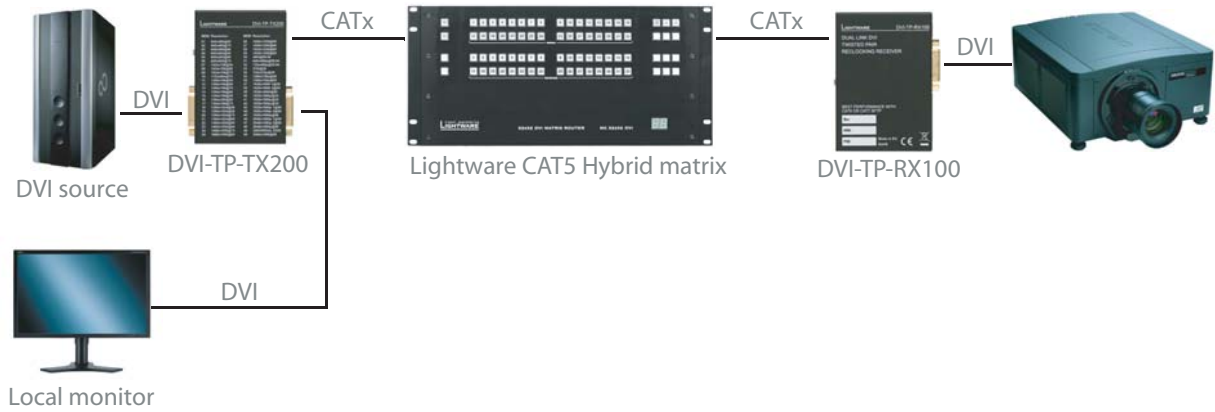
Datarate per TMDS channel:	1.65	Gbps
Transmission distance (with CAT7 SFTP cable):	1920x1080p	50 meters
	1080i, 720p; 1024x768	75 meters
Resolution:	1920x1200 or 2048x1080	max
HDCP pass through:	No	
EDID Memory:	100 EDID	
Programmable EDID Memory:	50 EDID	
EDID support:	256 byte Extended EDID	
Power:	External power adaptor, DC 5V 1A	
Enclosure:	1mm	metal
Dimensions:	(TX200):	103W x 70D x 27H mm
	(RX100)	103W x 70D x 27H mm
Warranty:	3	years



DVI-TP-TX200 / TX300 and DVI-TP-RX100



System examples



Maximum cable length

Resolution	V Freq(Hz)	EDIDmemory	CAT5eUTP	CAT5eFTP	CAT6UTP	CAT6FTP	CAT6S/FTP	CAT7S/FTP
640x480	60	01	60 m	60 m	65 m	70 m	70 m	80 m
800x600	60	05	60 m	60 m	65 m	65 m	65 m	75 m
1024x768	60	08	55 m	55 m	60 m	60 m	60 m	75 m
1280x720p	60	36	55 m	55 m	60 m	60 m	60 m	70 m
1280x1024	60	19	50 m	50 m	55 m	60 m	60 m	65 m
1400x1050	60	23	45 m	45 m	45 m	55 m	55 m	60 m
1600x1200	60	27	30 m	35 m	35 m	45 m	45 m	50 m
1920x1080p	60	45	30 m	35 m	35 m	45 m	45 m	50 m
1920x1200p	60	28	30 m	35 m	35 m	45 m	45 m	50 m

Front and back panels



DVI-TP-TX300



DVI-TP-TX200



DVI-TP-RX100