

CAT5, CAT6 and CAT7 Twisted Pair HDMI Extenders



Part No: 9152 0006 (HDCP TX50), 9152 0010 (HDMI TX50)
9152 0008 (HDCP RX50), 9152 0013 (HDMI RX50)



Highlight Features

- Extends HDMI and DVI signals with HDCP
- Supports Dolby TrueHD and DTS-HD Master Audio 7.1 formats
- Automatic cable equalizing

The Lightware DVI-HDCP-TP and HDMI-TP 50 series extenders can transmit HDMI or DVI-D signals over two CAT5, CAT6 or CAT7 cables. They fully support HDMI 1.3a signals with or without HDCP encryption. The DVI-HDCP-TP series extenders feature screw-locking DVI connectors to ensure reliable operation in professional environments, instead of the easily unpluggable HDMI connectors while keeping the benefits of the HDMI 1.3a interface.

Cross compatibility between all the devices in the product series is ensured thanks to Lightware's attentive design. Any transmitter can be paired with any receiver without restriction. With Lightware's hybrid modular matrix concept, it is even possible to connect an extender directly to the matrix router using an MX-HDMI-TP series input or output board (MX-HDMI-TP-IB or MX-HDMI-TP-OB).

Power source can be set by jumper for local supply with plug-in adapter, or for remote supply through TP CATx cable. All devices can be mounted on rack shelf, or used standalone.

Supporting the latest HDMI 1.3 standard, these products can be seamlessly connected to the latest Blu-Ray players, set top boxes, AV receivers or even Apple TV. Inputs are equalized on all receivers, this way up to 65 meter long cable extension can be achieved with CAT7 S/FTP cable on 1920x1080p@60Hz resolution. Accessible distances depend on the used cable quality and signal resolution.

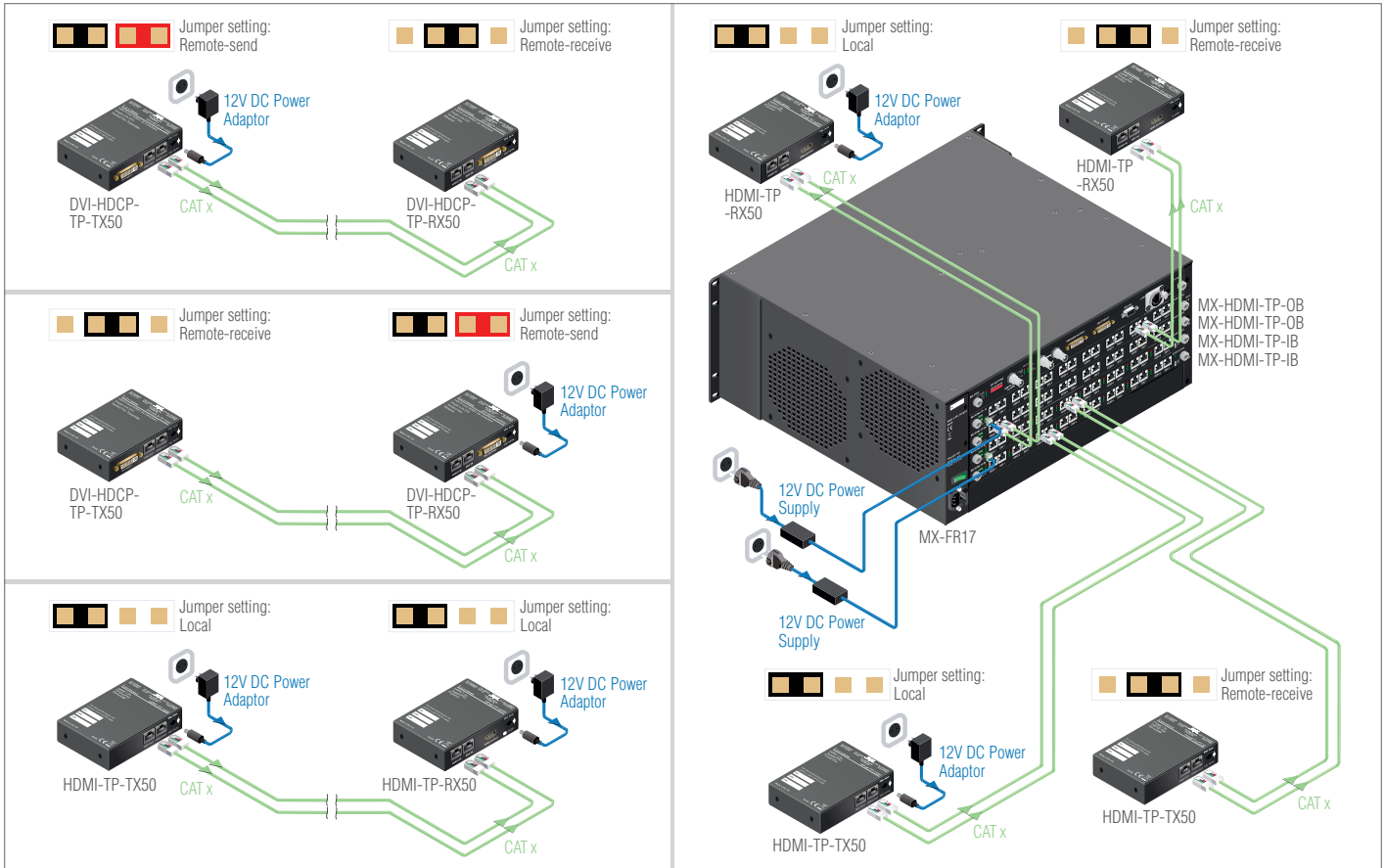
Option



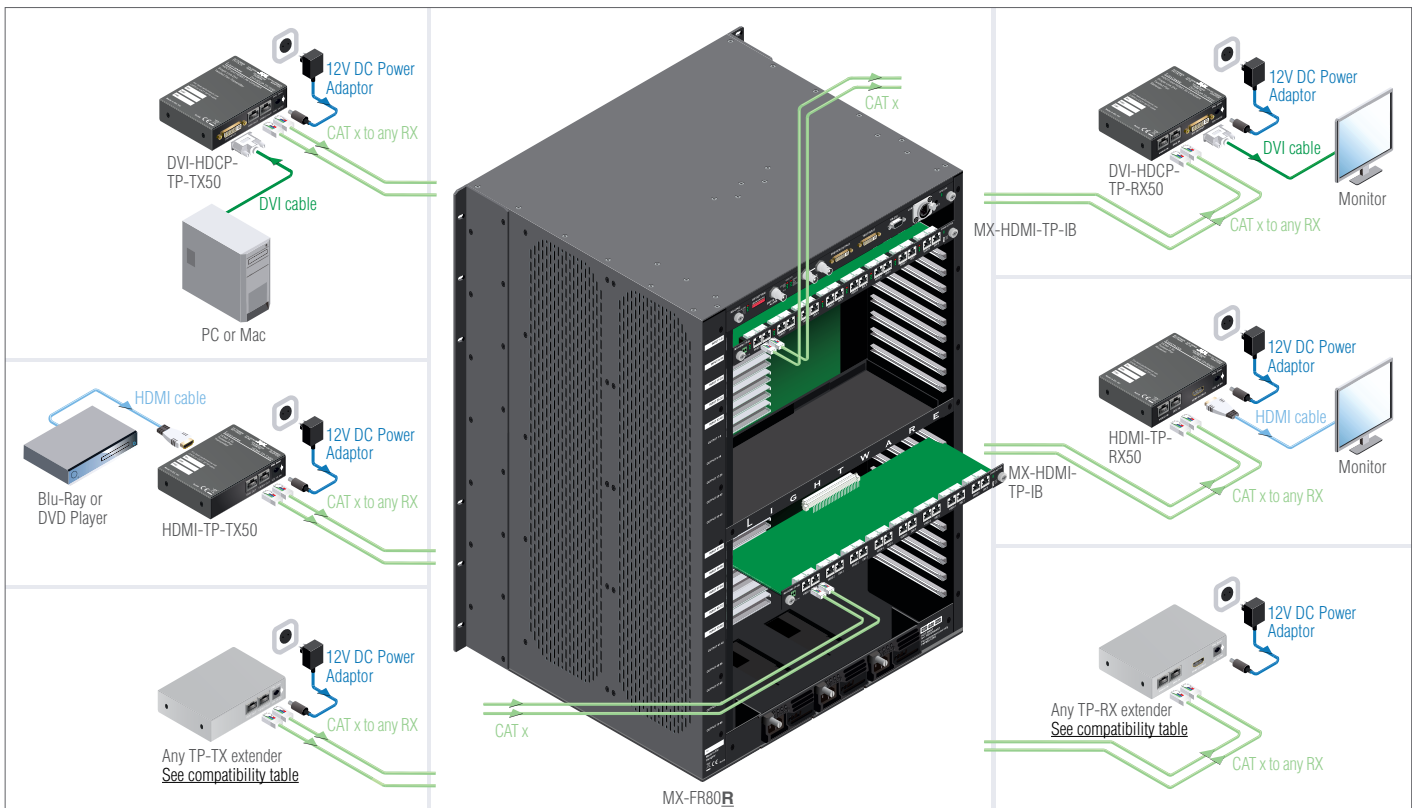
1U rack shelf

DVI-HDCP-TP-TX50, HDMI-TP-TX50, DVI-HDCP-TP-RX50, HDMI-TP-RX50

Power Remote Options



Typical Application



DVI-HDCP-TP-TX50, HDMI-TP-TX50, DVI-HDCP-TP-RX50, HDMI-TP-RX50

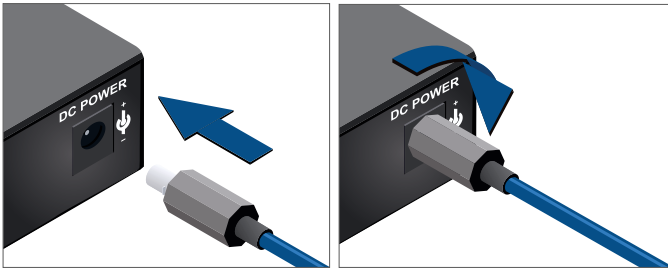
Applications

- Home theatre systems
- Multiroom video and audio control
- Professional AV systems, conference rooms
- Rental and Staging
- Digital signage

Features

- Extends HDMI 1.3a, HDCP 1.1 and DVI 1.0 signals
- Supports Dolby TrueHD and DTS-HD Master Audio 7.1 formats
- 1920x1200 or 2048x1080 maximum resolutions
- Cross compatibility with any Lightware twisted pair device
- Jumper selectable local or remote (remote-send / remote-receive) power source
- Automatic adaptive cable equalization adjustment
- Metal housing for professional use and rack mounting

Locking DC Plug



Twist 90° clockwise to lock

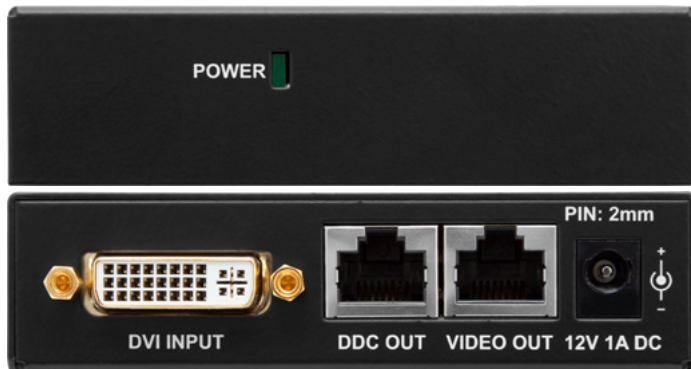
Specifications

Data rate:	6.75 Gbps (2.25 Gbps per color)
Resolution:	640x480 to 1920x1200 or 2048x1080 deep color
HDCP pass through:	Yes
EDID memory:	No
EDID support:	None (transparent)
TP cable equalization:	0-40dB automatic
LED indicators:	Power
Front panel control:	None
RS-232 pass through:	No
Power:	External power adaptor (100 to 240 V AC, 50/60Hz), (12V DC, 1A)
Power consumption:	2 W
Enclosure:	2 mm metal
Dimensions:	98 W x 67 D x 25 H mm
Weight:	230 g
Compliance:	CE
Warranty:	3 years

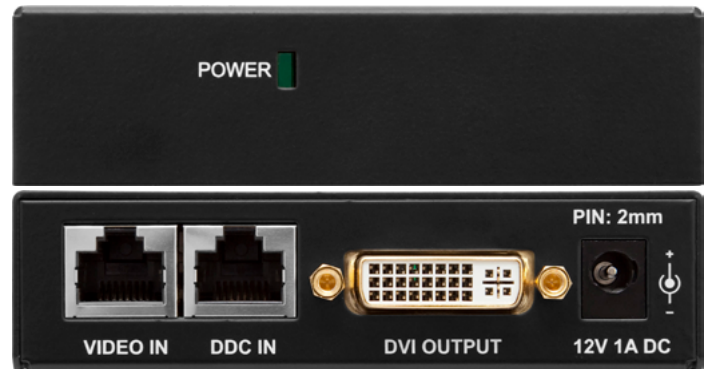
Connectors

TX input, RX output:	HDMI or 29-pole DVI-I (digital only)
TX output, RX input:	2 x RJ45
Power:	Locking DC connector (2.0 / 5.5 mm)

Transmitters and Receivers Front and Back View



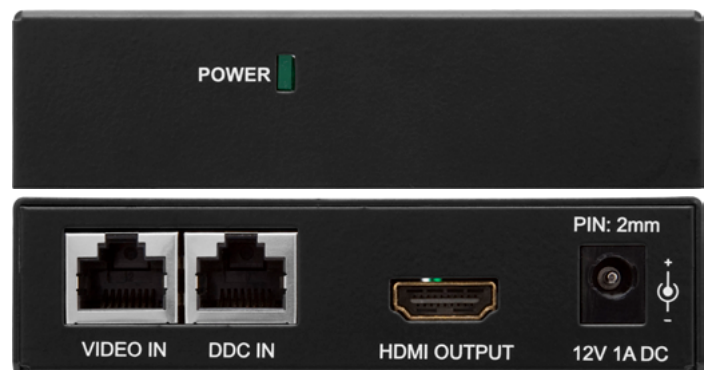
DVI-HDCP-TP-TX50



DVI-HDCP-TP-RX50



HDMI-TP-TX50



HDMI-TP-RX50

Maximum Extension Distances

Resolution	TMDS Freq	CAT5e UTP	CAT5e FTP	CAT6 UTP	CAT6 FTP	CAT6 S/FTP	CAT7 S/FTP
640 x 480	25,2 MHz	60 m	60 m	65 m	75 m	80 m	85 m
800 x 600	40,0 MHz	60 m	60 m	60 m	65 m	70 m	75 m
1024 x 768	65,0 MHz	55 m	55 m	60 m	65 m	70 m	75 m
1280 x 720p	74,4 MHz	55 m	55 m	60 m	65 m	65 m	75 m
1920 x 1080i	74,4 MHz	50 m	55 m	55 m	65 m	65 m	75 m
1280 x 1024	108,2 MHz	50 m	50 m	55 m	65 m	65 m	70 m
1400 x 1050	122,1 MHz	45 m	45 m	50 m	65 m	65 m	70 m
1920 x 1080p	149,1 MHz	30 m	35 m	45 m	55 m	60 m	65 m
1920 x 1200	153,4 MHz	30 m	35 m	45 m	55 m	60 m	65 m
1600 x 1200	162,4 MHz	30 m	35 m	40 m	45 m	50 m	55 m
1920 x 1080p 30 bit	186,3 MHz	20 m	20 m	25 m	25 m	30 m	35 m
1920 x 1080p 36 bit	223,6 MHz	10 m	10 m	10 m	15 m	15 m	20 m

Compatibility Table

- http://www.lightware.eu/pdfs/tp_extenders_cross_comp.pdf

Supplied Accessory



PSU-12VU Universal DC adaptor

(Part No: 1180 0098)

Wall power adaptor with interchangeable plug for international use.

Universal input: 100-240 V AC, 50-60 Hz,

Output: 12V DC, 2.5A

Optional Accessories



Under desk mounting kit

(Part No: 5240 0275)

The UD-kit makes it easy to mount a single device on any flat surface (e.g. furniture).



Under desk mounting kit double

(Part No: 5240 0276)

The UD-kit double makes it easy to mount a single device or multiple devices on any flat surface (e.g. furniture).



Rack shelf (Part No: 5240 0269)

The 1U high rack shelf provides mounting holes for fastening two half-rack or four quarter-rack sized units.