

TPS (HDBaseT™) Switcher and Transmitter for DisplayPort, HDMI and DVI with Local Monitor Out





Part No: 9154 0007























Highlight features

- 4K/UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0) and 3D capabilities
- Extends DVI, HDMI or DisplayPort + Audio + Ethernet + RS-232 + IR + GPIO over a single CAT5e(or higher class) cable up to a 170 m distance*
- **Event Manager**
- 10/100 Ethernet extension
- Bi-directional RS-232 and IR
- GPIO control port
- Embeds analog audio

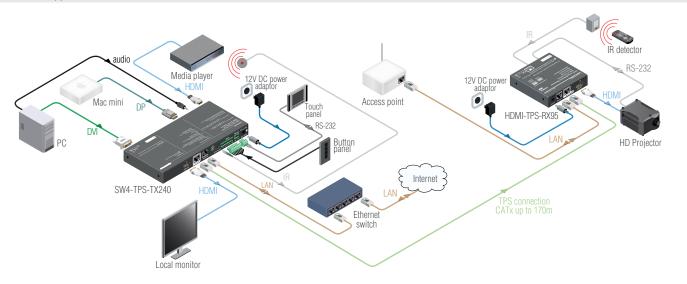
SW4-TPS-TX240 is a flagship model in the Lightware TPS (HDBaseT™ Transmitter) product family. The device can transmit universal video, audio and control up to a 170 meter distance over a single CAT cable in dynamically changing environments such as small board rooms and classrooms. The extender was designed to handle HDMI1.4 and DP1.1 digital video signals and analog stereo audio from local inputs or HDMI or DP Embedded Audio up to eight Channel PCM or HBR audio. Analog audio is converted into digital format. The device has a local HDMI video output. The video and the Embedded Audio of the local output is the same as the one transmitted via TPS link. The SW4-TPS-TX240 handles HDCP

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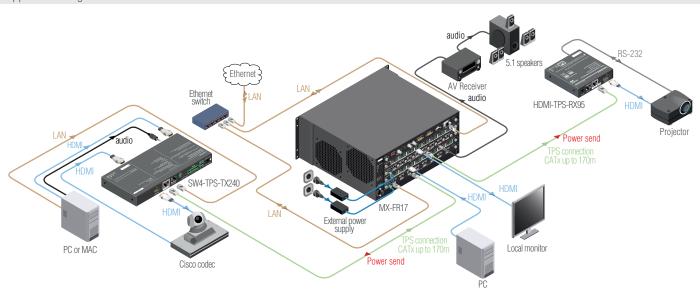
^{*}Depends on cable category and quality



Standalone Application



Application Diagram







SW4-TPS-TX240

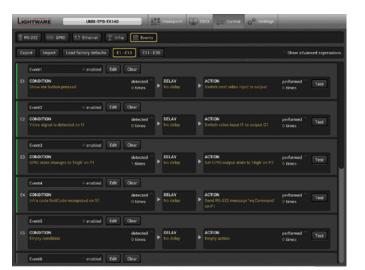


Event Manager

The Event Manager is a completely new feature of Lightware's UMX-TPS extender family. It's available through the Lightware Device Controller and can be configured to detect LW3 protocol CHANGE messages. The Event Manager was developed to handle tasks from the most simple; like displaying internal events on GPIO ports, and controlling the extender via GPIO inputs instead of front panel pushbuttons; to expert ones like controlling the rolling shutter, the air conditioning system or the lights based on any condition changes on the media ports, such as a new source being connected or removed. The Event Manager makes the UMX-TPS extender family an expert solution in a wider range of applications.

Event Manager Wizard

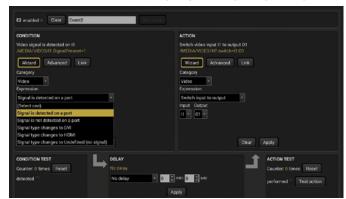
Assigning an action to a condition is quick and easy with the Event Manager's smart Wizard function. The user can choose from the given port options in the dropdown menu and also add expressions to it.



The Events menu contains 20 separately configurable Events



The Event Wizard makes the setup easy with simple dropdown options



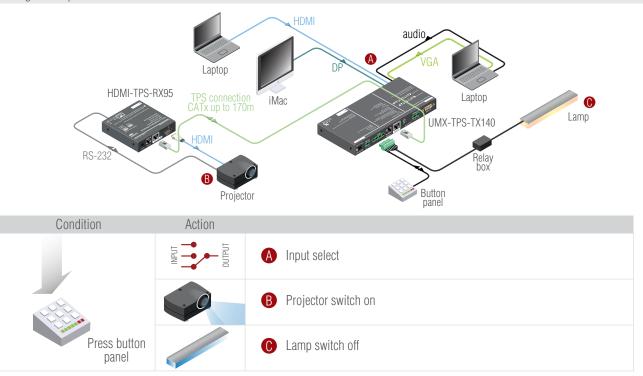
There are many default Expressions available to choose from



Green lines show which Event is configured and active, the rest stay grey

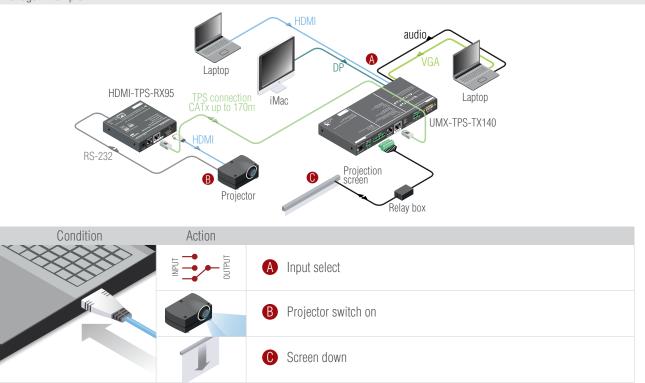


Event Manager Example A



With a connected button panel trough the GPIO port the UMX-TPS-TX140 can be controlled from a remote location, input swithcing is available even if the transmitter mounted underdesk. In the example above there are three actions followed by a condition. When an input selector button is pressed on the remote button panel, the input port is switched to the selected one, the lamp switches off, and the projector turns on as well.

Event Manager Example B

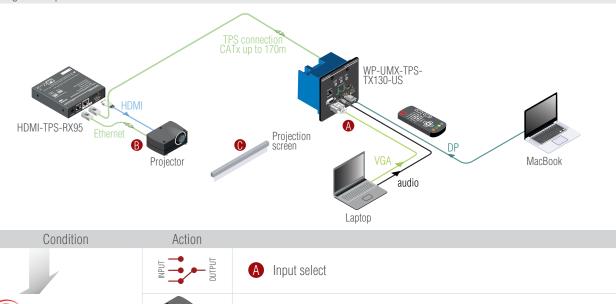


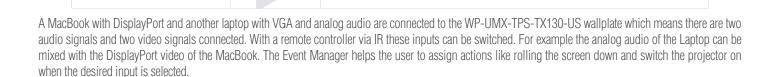
The projector and the rolling screen (through the Relay box) are connected to the UMX-TPS-TX140. When the user connects a laptop through HDMI to the transmitter the connected input is selected automatically the screen goes down and the projector turns on to display the connected source.

Press remote controller



Event Manager Example C



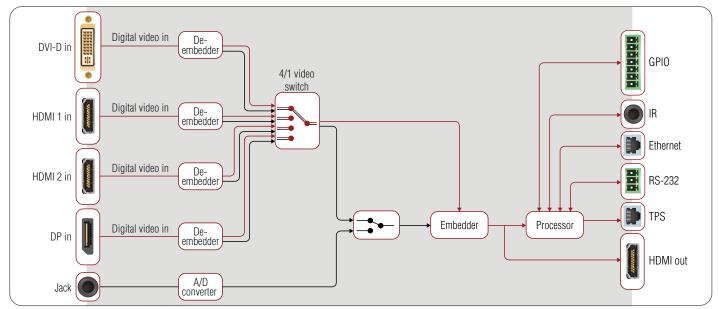


Screen down

Projector switch on



Port Diagram



encryption. Using the factory, custom or transparent EDID emulation the user can fix and lock EDID data on each input connector. Advanced EDID Management forces the required resolution from any video source and fixes the output format conforming to the system requirements. The unit offers bi-directional and transparent IR, RS232 and Ethernet transmission. Furthermore the RS232 and IR connection supports command injection. Remote powering is available through the single CAT 5e − CAT 7 cable, but local power supply can also be used. All devices can be mounted on a rack shelf or used standalone formats. SW4-TPS-TX240 is compatible with both the HDBaseT™ extenders and matrix switchers.

Compatibility Products

- MX Modular matrix frames with MX-TPS-IB or MX-TPS2-IB
- HDMI-TPS-RX90
- DVI-HDCP-TPS-RX95
- HDMI-TPS-RX95
- TPS-PI-1P1

Applications

- Small classrooms
- Conference rooms, meeting rooms
- Control rooms
- Home cinemas

Features

- 4K/UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0) and 3D capabilities
- Extends HDMI1.4 + Audio + Ethernet + RS-232 + IR + GPIO over a single CAT5e-CAT7e cable up to 170 m distance*
- Audio and video connectors: HDMI (input), HDMI (local output), Stereo jack
- Advanced EDID Manager
- Event Manager
- 10/100 Ethernet extension

Specifications

Up to 4K UHD 3840×2160@30Hz, 1600x1200@60Hz, FullHD 1920x1080@60Hz
Supports up to 8 channel PCM, Dolby TrueHD and DTS-HD Master Audio 7.1 formats
Automatic max 20 m
Yes, Advanced EDID Management
120 factory preset, 15 user programmable
Yes
Yes, configurable
9600, 19200, 38400, 57600, 115200 Baud Rx,Tx (local or through CATx)(default: 57600)
Universal power adaptor, DC 12V 2.5A
DC 48V 1 A
8W (typ)
1 mm metal
221 W x 100.4 D x 26 H mm
CE
3 years

Connectors

Digital video input:	HDMI connector, DVI-D connector, DisplayPort
Digital video output:	HDMI connector
Audio input:	3.5 mm stereo jack
Ethernet:	1 x RJ45
GPIO:	8-pole PHOENIX
IR:	3.5 mm jack
TPS output:	1 x RJ45
Serial port:	3-pole PHOENIX
Power:	Locking DC connector (2.1 / 5.5 mm)



Supplied Accessories



PSU-12VU Universal DC adaptor (Part No: 1180 0051)

Wall power adaptor with interchangeable plug for international use. Universal input: 100-240 V AC, 50-60 Hz, output: 12 V DC, 2.5 A



IR emitter and IR eye (Part No: 1374 0003 TX, 1374 0002 RX)

IR emitter is supplied with TPS-TX, IR eye is supplied with TPS-RX units. Needed for IR extension.

Optional Accessories



Under desk mounting kit double (Part No: 5240 0276)

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



Rack shelf (Part No: 5240 0935)

1U high rack shelf provides mounting holes for fastening four quarter-rack sized units. Pocket sized devices can also be fastened on the shelf.