

Analog/digital video and audio extension over CATx cable



Part No: 9152 0017



Highlight features

- Extends VGA, YPbPr, DVI and HDMI 1.3 signals
- Accepts analog and digital audio signals
- Autoswitch and autosync function for video and audio inputs with priority
- HDCP compliant
- Adjustable analog audio settings

Lightware's UMX-TP-TX100R is an all-round, universal video and audio transmitter for ever-changing environments such as small board rooms and classrooms. The extender was designed to handle digital and analog video and audio signals e.g. VGA, YPbPr, DVI and HDMI 1.3 with analog stereo, 5.1 S/PDIF and even 7.1 HDMI embedded audio.

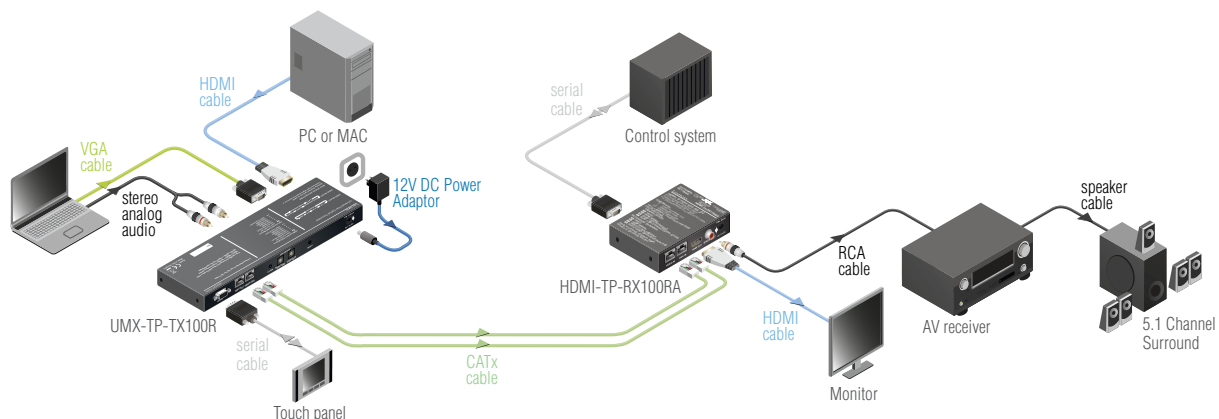
Analog signals are converted to digital formats and digital or digitized analog audio is embedded in the video stream. UMX-TP-TX100R handles HDCP encryption and has an HDCP enable/disable function.

Using the factory, custom or transparent EDID emulation (separate rotate switch for VGA and HDMI inputs), the user can fix and lock EDID data on the transmitter's input connector. Advanced EDID Management forces the required resolution from any VGA or HDMI laptop and fixes the output format conforming to the system performance.

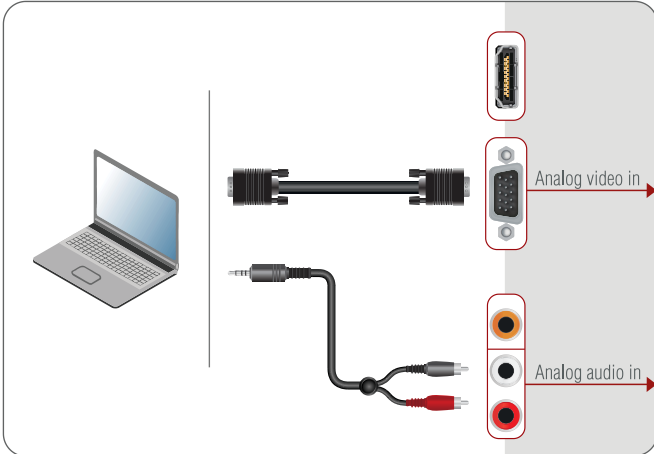
Control options available through RS-232: UMX-TP-TX100R can be controlled from either Touch controller or Control System. The transmitter has RS-232 pass-through option which allows direct bi-directional communication between Touch controller and Control System.

Cross compatibility between all the devices in the product series is ensured thanks to Lightware's attentive design. The transmitter can be paired with any receiver without restriction. With Lightware's Hybrid Modular Matrix concept, it is even possible to connect the UMX-TP-TX100R directly to the matrix router using an MX-HDMI-TP or MX-DVI-TP series input board.

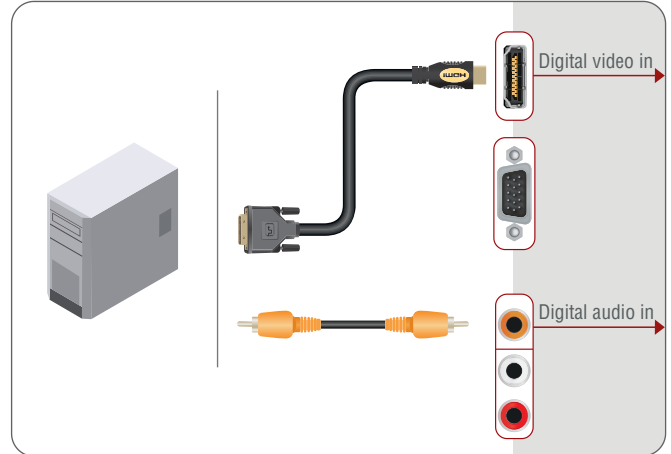
Stand alone application



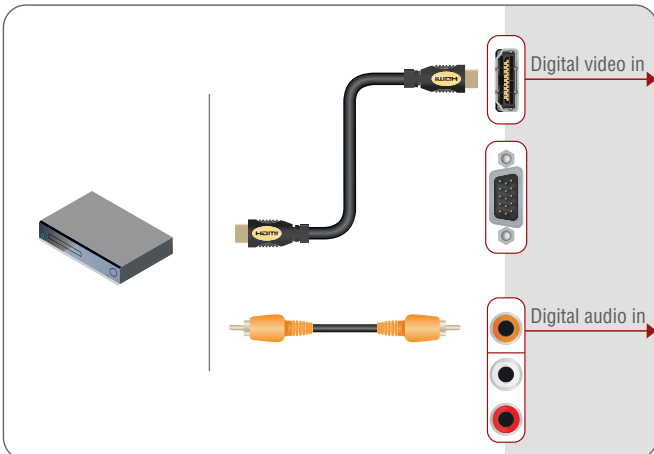
Input ports - solutions for various video and audio environment



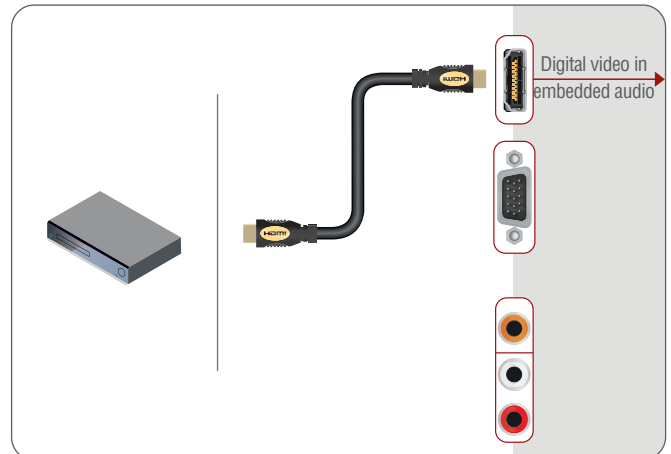
The laptop is connected with a VGA to VGA video cable and a mini-jack to RCA audio cable to the transmitter. The analog video and audio signals are converted to digital format.



The PC is connected with a DVI to HDMI video cable and a S/PDIF to S/PDIF audio cable to the transmitter. The DVI video and digital audio is converted and embedded in an HDMI video stream.

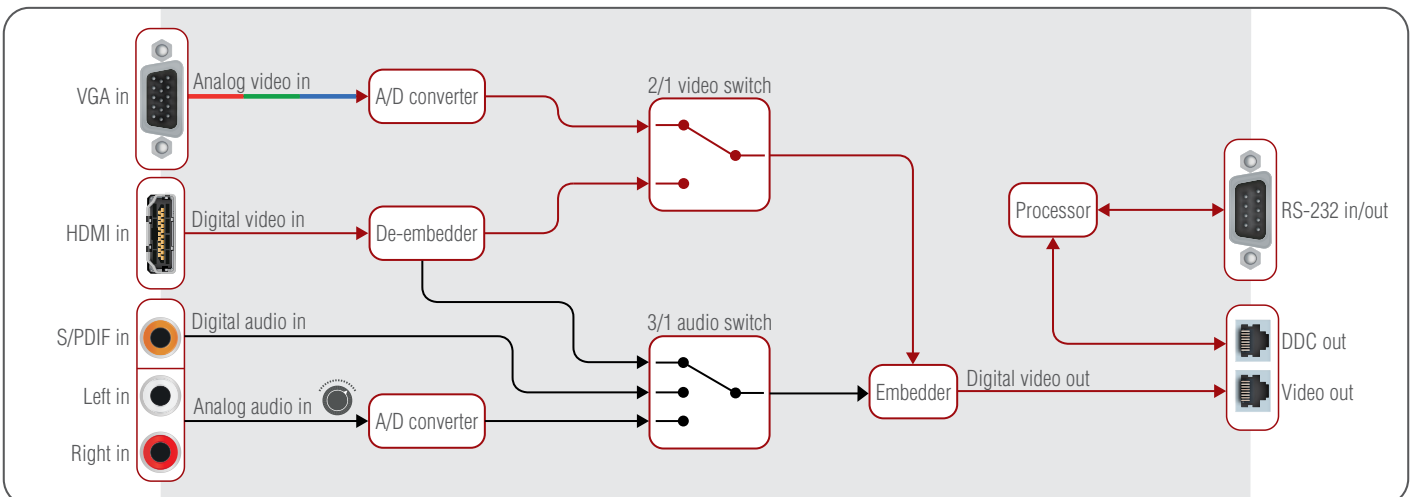


The set-top box is connected with an HDMI to HDMI video cable and a S/PDIF to S/PDIF audio cable to the transmitter. The digital audio is embedded in the HDMI stream.



The blue-ray player is connected with an HDMI to HDMI video cable to the transmitter. The HDMI video with the embedded audio is transmitted through the UMX-TP-TX100R.

Port diagram



Applications

- Small classrooms
- Conference rooms, collaborative telepresence
- Control room
- Home cinema

Features

- Supports VGA, YPbPr, DVI and HDMI 1.3 signals
- Accepts analog stereo; 5.1 S/PDIF and even 7.1 HDMI embedded audio signals
- Audio embedding on output
- Volume, gain and balance control
- Phase invert and DC filter option
- Max cable length of 65m (CAT7 SFTP)@1080p60, 40m (CAT5e UTP) @1080p60, 60m (CAT6 FTP) @1080p60
- All analog signals are converted to digital formats
- Auto select function for video and audio inputs
- Uncompressed video/audio up to 6.75 Gbps
- Input (video & audio) status LEDs
- Local or remote power source
- HDCP compliant
- RS-232 control
- Rack mounting options
- Locking DC connector

Analog audio input

Volume:	-63 .. 0 dB
Gain:	0 .. 24 dB
Balance:	0 .. 100%
Phase invert:	On/Off

Specifications

Data rate:	6.75 Gbps (2.25 Gbps per color)
Resolution:	Up to 1080p / 1920 x 1200 / 2048 x 1080
Digital audio formats:	Stereo PCM, 5.1 Dolby Digital, 5.1 DTS
Input cable equalization:	Automatic max 20m
EDID emulation:	Yes, Advanced EDID Management
EDID memory:	2 x 5 factory preset, 2 x 4 user programmable
VGA to digital conversion:	0 microseconds delay
HDCP pass-through:	Yes
RS-232 pass-through:	Yes, configurable
RS-232 (control option):	9600, 19200, 38400, 57600, 115200 Baud Rx,Tx (local or through CATx)(default: 57600
Power:	Universal power adaptor, DC 12V 1 A
Power consumption:	3.2 W (typ) 4 W (max), 4.8 W (remote power for RX)
Enclosure:	1mm metal
Dimensions:	221 W x 67.6 D x 26 H mm
Weight:	470 g
Compliance:	CE
Warranty:	3 years

Connectors

Digital video input:	HDMI connector
Analog video input:	VGA connector
Digital audio input:	S/PDIF (RCA)
Analog audio input:	L+R RCA (Analog Stereo)
TP output:	2 x RJ45
Serial port:	9-pole D-sub
Power:	Locking DC connector (2.1 / 5.5 mm)

Front and rear view



UMX-TP-TX100R front view



UMX-TP-TX100R rear view

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: 12 V DC, 1 A

Optional accessories



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

The UD-kit double makes it easy to mount a single device 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.