

UMX Series TPS (HDBaseT™) Transmitter with USB KVM



Part No: 9154 0050



UMX-TPS-TX140K transmits universal video at a **resolution up to 4K** with audio and control up to a range of 170 m over a single CAT5 or better class cable. This transmitter was designed for digital and analog video and audio signals e.g. **DVI, VGA, YPrPb, HDMI1.4 and DP 1.1** with analog stereo audio from local inputs or embedded **7.1 HBR** audio and to handle **HDCP encryption**. Analog signals (both audio and video) are converted to a digital format and can be transmitted separately from each other. 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, RS-232 and Ethernet** transmission. Furthermore the IR and RS-232 connection supports command injection, allowing it to **send any IR or RS-232 control command directly from the LAN connection**.

Furthermore, the device utilizes control over **USB KVM** via its dedicated mini-USB port, in a point-to-point extension when connected to the HDMI-TPS-RX220AK receiver.

Remote powering is available through the single CAT cable, but local power supply can also be used. The device can be mounted on a rack shelf or used standalone. UMX-TPS-TX140-Plus is compatible with both the HDBaseT™ extenders and matrix boards.

Advanced Control Features:

- Support to send raw Infrared messages (Pronto HEX codes) to control TVs, Blurays, etc with connected IR emitters
- Support to send CEC messages to control TVs, Blurays etc which are connected on HDMI ports
- Support to recognize incoming CEC messages in **Event Manager** and trigger custom actions
- Support to recognize incoming RS-232 messages to integrate with 3rd party devices like VC codecs
- Increased number of Events to 100
*Depends on cable category and quality

Highlight Features

- Cisco VC room integration compatibility
- Advanced control feature pack for 3rd party video conference collaboration
- Built-in Event Manager control automation feature
- 1920x1080@120Hz/4:4:4, 4096x2048@30Hz/4:4:4 or 60Hz/4:2:0 maximum resolutions (300MHz)
- USB KVM (HID) extension
- Audio embedding (or replace original audio)
- Ethernet extension (100 Mbps)
- Command injection on RS-232 and IR ports
- GPIO control ports
- Extends VGA, DVI, HDMI 1.4 or DP 1.1 + Audio + Ethernet + RS-232 + IR over one CAT5/6/7 cable
- Bi-directional RS-232 and IR extension (pass-through and control)
- Event Manager** built-in control application
- USB KVM (HID) extension**
- Advanced control feature pack for 3rd party video conference collaboration**
- Audio and video connectors: DVI-I, HDMI, VGA, DisplayPort, Stereo jack, PHOENIX 1x5-pole
- 10/100 Ethernet transmission
- Bi-directional RS-232 and IR supporting command injection, allowing the sending of any IR or RS-232 control command directly from the LAN connection
- GPIO control port
- HDCP compliant, CEC, EDID transparent
- Local audio embedding
- Advanced EDID Management forces the required resolution from any video source and fixes the output format conforming the system requirements
- Remote (PoE) or local power source
- Standalone or rack-mounted use
*Depends on cable category and quality

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Specification

Resolution:	Up to 4K UHD 3840x2160@30Hz, 1600x1200@60Hz, FullHD 1920x1080@60Hz
Digital audio formats:	Supports up to 8 channel PCM, Dolby TrueHD and DTS-HD Master Audio 7.1 formats
Input cable equalization:	Automatic max 20 m
EDID emulation:	Yes, Advanced EDID Management
EDID memory:	119 factory preset, 15 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)
Local power:	Universal power adaptor, DC 12V 2.5A
Power over TPS:	DC 48V 1A
Power consumption:	9W (typ)
Enclosure:	1 mm metal
Dimensions:	221 W x 100.4 D x 26 H mm
Net weight:	646 g
Compliance:	CE
Warranty:	3 years

Connectors

Digital video input:	HDMI connector, DVI-I connector, DisplayPort
Analog video input:	VGA connector
Audio input:	Stereo jack, 5-pole Phoenix
Ethernet:	1 x RJ45
USB	Mini Type B
TPS output:	1 x RJ45
Control:	7 x GPIO, IR
Serial port:	3-pole PHOENIX
Power:	Locking DC connector (2.1 / 5.5 mm)

Analog Audio Input

Volume:	-96 .. 0 dB
Balance:	0 .. 100%

Applications

- Small classrooms
- Conference rooms, meeting rooms
- Control room
- Home cinema

Compatible Products

- MX Modular matrix frames with MX-TPS-IB
- HDMI-TPS-RX90
- DVI-HDCP-TPS-RX95
- HDMI-TPS-RX95
- TPS-PI-1P1
- MMX6x2-HT200
- MMX6x2-HT210
- MMX6x2-HT220

Features

- Cisco VC room integration compatibility
- Advanced control feature pack for 3rd party video conference collaboration
- Built-in Event Manager automation feature
- 1920x1080@120Hz/4:4:4, 4096x2048@30Hz/4:4:4 or 60Hz/4:2:0 maximum resolutions (300MHz)
- Audio embedding (or replace original audio)
- Ethernet extension (100 Mbps)
- USB KVM (HID) extension
- Command injection on RS-232 and IR ports
- GPIO control ports
- Extends VGA, DVI, HDMI 1.4 or DP 1.1 + Audio + Ethernet + RS-232 + IR over one CAT5/6/7 cable
- Bi-directional RS-232 and IR extension (pass-through and control)
- Can be remote powered through CATx cable (PoE PD)
- Autoselect modes to automatically switch video and audio (first detect, last detect, priority)
- Breakaway audio and video switching (audio and video signals can be routed separately)
- Supports HDMI 3D signal formats (frame packing, side-by-side and top-bottom)
- HDMI 1.4, HDCP 1.4 and DVI 1.0 compliant
- HDCP enable/disable function on input
- HDCP 1.4 compliant
- Uncompressed video up to 9 Gbps datarate (300 MHz pixel clock)
- No signal latency, zero frame delay
- TPS link quality and cable length monitoring
- DVI-I (Analog+Digital) input connection
- Adjustable analog audio settings (volume, gain, balance)
- Firmware upgrade through Ethernet
- Cross compatible with TPS series Lightware extenders and I/O boards (HDBaseT compatible)
- Supports all embedded audio formats (including PCM, Dolby Digital and DTS high bitrate audio)
- Extension distance up to 170 meters (with CAT7 S/FTP AWG23 cable, 1920x1080p60)
- HDBaseT compatible
- Advanced EDID Management
- Digitizes VGA, YUV analog input formats and converts to HDMI or DVI
- Pixel Accurate Reclocking
- Device control via Ethernet (TCP/IP) and RS-232
- Multiple TCP/IP connections
- Intuitive control software for device configuration
- Front panel buttons for crosspoint control
- Supports HDMI 4K signal formats (4K UHD @30Hz RGB 4:4:4 or @60Hz YUV 4:2:0, up to 9 Gbps)
- No video compression
- Built-in video test pattern generator
- Bi-directional RS-232 and IR extension (pass-through)
- Twist-and-lock DC power connector
- Frame Detector (analyze detailed video timings)
- Supports several embedded audio formats (including PCM, Dolby Digital and DTS)
- Compatible with Mac laptop and desktop computers with Thunderbolt port
- External universal power adaptor
- 5-pole Phoenix balanced analog audio connectors
- 3,5mm audio jack input
- Mounting options for rack, furniture or truss

Supplied Accessories



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, 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.