



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: HDMI-TPS-TX96

FUNCTIONAL OVERVIEW

HDMI-TPS-TX96 is an HDBaseT™/TPS transmitter for extending uncompressed digital video and embedded audio over a single CATx cable to a compatible TPS/HDBaseT receiver. It accepts HDMI/DVI-D video and audio and transmits them over the TPS link together with Ethernet, RS-232, infrared, and CEC. The unit supports HDCP compliance and includes Pixel Accurate Reclocking for stable transmission. It can be powered locally by 12V DC or can provide/receive 12V remote power via the TPS connection.

VIDEO INPUT AND OUTPUT

- Video input (HDMI input)
 - Connector type: 19-pole HDMI Type A receptacle
 - Standard: DVI 1.0, HDMI 1.4
 - Supported resolutions at 8 bits/color: up to 4096x2048@30Hz (4:4:4) or 4096x2048@60Hz(4:2:0);upto3840x2160@30Hz(4:4:4)or3840x2160@60Hz(4:2:0)
 - Color space: RGB, YCbCr
 - EDID support: Transparent
 - CEC support: Transparent (only between HDMI-TPS-TX96 and HDMI-TPS-RX96 models)
 - Reclocking: Pixel Accurate Reclocking
 - Equalization: adaptive, automatic
 - 3D support: Yes
- Video output (via TPS output)
 - Connector type: RJ45 female connector
 - Compliance: HDBaseTTM
 - HDCP compliance: HDCP 1.4
 - Transferred signals: Video, Audio, RS-232, Infrared, Ethernet, CEC
 - Video latency: 0 frame
 - Supported resolutions at 8 bits/color: up to 4096x2048@30Hz (4:4:4) or 4096x2048@60Hz(4:2:0);upto3840x2160@30Hz(4:4:4)or3840x2160@60Hz(4:2:0)
 - Color space: RGB, YCbCr

- Power over Ethernet: 12V power sending or receiving
- Data rate: 10GBase-T

AUDIO CAPABILITIES

- Embedded digital audio is received on HDMI and transmitted via the TPS link
- Audio formats: all formats in the line with HDMI 1.4 standard

POWERING

- Local adaptor: 12V DC input for local power supply
- Remote power: 12V remote powering via TPS port (extender pair can power each other when one unit is locally supplied)

CONTROL

- RS-232 port: local RS-232 port for bidirectional serial data connection and performing firmware update (programming)
- RS-232 switch: Normal (serial data is passed through) / Prog (RS-232 pass-through disabled; device ready for firmware update)
- Ethernet port: Ethernet data is passed through the device (10/100 Mbps)
- IR input and IR output via 3.5 mm connectors; IR mode switch selects modulation (Emitter 38 kHz ON / Wired 38 kHz OFF)
- TPS mode switch: LR (Longreach) / Auto (mode determined automatically)
- Status LEDs: LIVE, LINK, SIGNAL, HDCP

GENERAL

- Dimensions: 100.4 W x 100.4 D x 26 H (mm)
- Weight: 302 g (0.66 lbs)
- Enclosure material: 1 mm steel
- Mounting options (compatibility)
 - 1U High Rack Shelf (4x)
 - UD Mounting Kit (1x)
 - UD Mounting Kit Double (2x)
 - UD Mounting Plate F110 (1x)
 - UD Mounting Plate F120 (2x)
 - PRC-16-312 rackmount cage (16x)



- LVD compatibility: Electrical safety compliance EN 62368-1:2024
- Supplied accessories
 - 12V DC power adaptor with interchangeable plugs
 - Phoenix combicon 3-pole connector
 - Safety and Warranty Info
 - Quick Start Guide
- Warranty period: 3 years
- Cooling: Passive
- Packaging: product has a full paper / green packaging

DOCUMENT REVISION HISTORY

Document	Release Date	Changes	Checked by
v1	2026-07-31	Initial version	Tamas Forgacs