



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: HDMI-TPS-TX97

FUNCTIONAL OVERVIEW

The HDMI-TPS-TX97 is an HDBaseT™ (TPS) transmitter extender for extending uncompressed HDMI/DVI video with embedded audio over a single CATx cable to a compatible TPS receiver, matrix, or third-party HDBaseT™ device. It transmits video/audio plus Ethernet, RS-232, and Infrared pass-through over the same TPS link. The unit supports HDCP 1.4 compliance, transparent EDID/CEC handling, and Pixel Accurate Reclocking. Power can be provided locally by external adaptor or remotely via PoE (PD) through the TPS port.

VIDEO INPUT AND OUTPUT

- Video input (HDMI input)
 - Connector: 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)
 - Supports 1920x1080@60Hz (4:4:4) up to 12 bits/color
 - Color space: RGB, YCbCr
 - EDID support: Transparent
 - CEC support: Transparent
 - Reclocking: Pixel Accurate Reclocking
 - 3D support: Yes
- Video output (via TPS output)
 - Connector: RJ45 female
 - Compliance: HDBaseT™
 - HDCP compliance: HDCP 1.4
 - Video latency: 0 frame
 - Transferred signals: Video, Audio, RS-232, Infrared, Ethernet, CEC
 - Color space: RGB, YCbCr
 - 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)

- Supports 1920x1080@60Hz (4:4:4) up to 12 bits/color
- All standard VESA, CEA and other custom resolutions up to 300MHz (HDMI1.4a)

AUDIO CAPABILITIES

- Embedded digital audio is transported over the TPS (HDBaseT™) link
- Audio formats: all formats in the line with HDMI 1.4 standard

POWERING

- External power adaptor
- PoE PD via TPS port (IEEE802.3af)
- Supplied power (HDMI-TPS-97 Series): 12V DC, 2.5A
- Supported power source (adaptor input): 100-240 V AC; 50/60 Hz

CONTROL

- RS-232 (local port for bidirectional serial data connection and firmware update/programming)
- Ethernet pass-through (10/100 Mbps)
- Infrared extension via IR input and IR output ports
- CEC is transferred via the TPS link (transparent)

GENERAL

- Dimensions: 100.4 W x 100.4 D x 26 H (mm)
- Weight: 300 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	2026-08-14	Initial version	Tamas Forgacs