



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: FP-HDMI-TPS-RX97-GB3

FUNCTIONAL OVERVIEW

WP/FP-HDMI-TPS-97 series twisted pair HDBaseT™ extenders provide extension of uncompressed 4K/UHD video with embedded audio (up to 8 channel PCM or HBR audio) for long distances over a single CATx cable. The extender offers RS-232, IR, and Ethernet pass-through on the same CATx cable that carries the video signal. PoE 48V remote powering is available through the single CATx cable, but a local power supply can also be used.

VIDEO INPUT AND OUTPUT

- TPS input
 - Connector type: RJ45 female connector
 - Compliance: HDBaseT™
 - Power over Ethernet: PoE PD (IEEE802.3af)
 - Data rate: 10GBase-T
 - HDCP compliance: HDCP 1.4
 - Transferred signals: Video, Audio, RS-232, Infrared, Ethernet, CEC
 - Video latency: 0 frame
 - 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)
 - 1920x1080@60Hz (4:4:4) up to 12 bits/color
 - All standard VESA, CEA and other custom resolutions up to 300MHz (HDMI1.4a)
- HDMI output
 - 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)
 - 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

AUDIO CAPABILITIES

- Extension of uncompressed 4K/UHD video with embedded audio (up to 8 channel PCM or HBR audio)
- Audio formats: all formats in the line with HDMI 1.4 standard

POWERING

- Power supply option: External power adaptor / PoE PD via TPS port
- Supported power source: 100-240 V AC; 50/60 Hz
- Supplied power: 48V DC, 0.5A
- 48V DC input for local power supply (2-pole Phoenix connector)

CONTROL

- RS-232 port (bidirectional serial data connection and performing firmware update / programming)
- RS-232 switch (Normal / Prog)
- Ethernet port (10/100 Mbps data transfer rate pass-through)
- Infrared input and output ports
- TPS mode switch (LR / Auto)

GENERAL

- Compliance: CE, UKCA
- LVD compatibility (Electrical safety): EN 62368-1:2024
- Warranty: 3 years
- Cooling: Cooling fan
- Enclosure material: 1 mm steel
- Weight: 370 g (0.82 lbs)
- Dimensions of the front plate (in mm): 44.8 x 134.5
- Mounting options: Floor-mountable

- Front plate: FP-HDMI-TPS GB3 plate
- Recommended outlet box type for mounting: (OBO Bettermann: UT4; Part no.: 7408727; Cover plate: OBO Bettermann UT4; P3; Part no.: 7408 76 1; Legrand 89610)
- Supplied accessories
 - Phoenix combicon 3-pole connector
 - Safety and Warranty info, Quick Start Guide
- 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