

MPTP-TUH43R

18G KVM Extender Receiver over HDBaseT 3.0



Product Overview

The MPTP-TUH43R is an 18Gbps KVM extender receiver designed for HDMI video extension over HDBaseT. It supports transmission up to 40m at 4K@60Hz and 70m at 4K@30Hz over CAT6A cable, with audio pass-through, two-way IR, USB extension, RS232 pass-through and two-way 24V PoC.

Key Features

- 18Gbps high bandwidth with HDMI 2.0.
- Video resolution up to 4K@60Hz 4:4:4 with HDR10 and Dolby Vision.
- Transmission distance up to 40m at 4K@60Hz and 70m at 4K@30Hz.
- Two-way IR and RS232 pass-through.
- Two-way 24V PoC — transmitter and receiver can power each other.
- Audio pass-through.
- USB 2.0 extension with 3 × USB-A and 1 × USB-C device ports.

Interfaces

HDBT IN	1 × RJ45
VIDEO OUT	1 × Type-A female HDMI
USB DEVICE	3 × USB-A 2.0 + 1 × USB-C 2.0
L/R OUT	1 × 3.5mm audio jack
RS232	1 × 3-pin terminal block
IR	IR IN + IR OUT
Power	DC 24V

Technical Specifications

MPTP-TUH43R

Category	Specification
Video Input	1 × HDBT IN; RJ45
Input Resolution	Up to 4K@60Hz 4:4:4
Video Output	1 × VIDEO OUT; Type-A female HDMI
Output Resolution	Up to 4K@60Hz 4:4:4
Audio Output	1 × L/R OUT; 3.5mm jack
Audio Format	PCM 2CH
Frequency Response	20Hz–20kHz, ±3dB
Max Output Level	2.0Vrms ± 0.5dB
THD+N	< 0.05% (-80dB), 20Hz–20kHz
SNR	> 85dB, 20Hz–20kHz
Crosstalk Isolation	> 70dB
L-R Level Deviation	< 0.3dB
Output Load Capability	1KΩ and higher
Stereo Channel Separation	> 70dB @ 1kHz
USB	USB 2.0; 3 × USB-A + 1 × USB-C
USB Device Power	2A total
Bandwidth	18Gbps
HDMI Standard	2.0
HDCP	Input: HDCP 2.2 / 1.4 compliant; Output follows source HDCP version
Two-way PoC	Supported, two-way 24V
Transmission Standard	HDBaseT
Transmission Distance	4K@60Hz 4:4:4 ≤ 40m; 4K@30Hz 4:4:4 ≤ 70m
Operating Temperature	-10 to +55°C (+14 to +131°F)
Storage Temperature	-25 to +70°C (-13 to +158°F)
Relative Humidity	10% to 90%, non-condensing
Power Supply	DC 24V 1.5A
Power Consumption	28W (Max)
Dimensions (W×H×D)	140 × 21.5 × 110 mm
Net Weight	360g

Control & System Notes

Control includes DEVICE ports, PoC switch, MODE switch, RS232, IR IN, IR OUT and USB power switch. The manual's system connection diagram shows the receiver connected to a display, USB peripherals and an audio amplifier, with the transmitter linked over CAT6A.

Note: For reliable transmission and connection, use a high-quality HDMI cable fully compliant with HDMI 2.0.

Source: MPTP-TUH43R User Manual, Version MPTP-TUH43R_2025V1.0.