



MPTP-TUH43R

18G KVM Extender Receiver over HDBaseT 3.0



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Version: MPTP-TUH43R 2025V1.0

Product Introduction

Thanks for choosing the 18G KVM Extender Receiver. It can transmit up to 40m at 4K@60Hz and 70m at 4K@30Hz via CAT6A cable. It supports audio pass-through and two-way IR, USB extend and RS232 pass-through. 24V PoC feature allows the transmitter and the receiver can be powered from each other and only one power adapter is needed in system.

Features

- 18Gbps high bandwidth, HDMI V2.0.
- HDMI video resolution up to 4K@60Hz 4:4:4, HDR10, Dolby Vision.
- Supports to transmit up to 40m at 4K@60Hz and 70m at 4K@30Hz.
- Two-way IR and RS232 pass-through.
- Supports two-way 24V PoC.
- Supports audio pass-through.

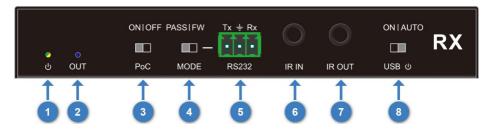
Packing List

- 1x MPTP-TUH43R Receiver
- 2x Mounting Ears with 2 Screws
- 1x User Manual

- 1x 3-pin Terminal Block
- 4x Rubber feet
- 1x Power Adapter (DC24V 1.5A)

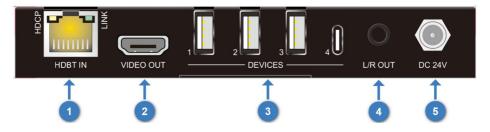
Note: Please contact your distributor immediately if any damage or defect in the components is found.

Front Panel



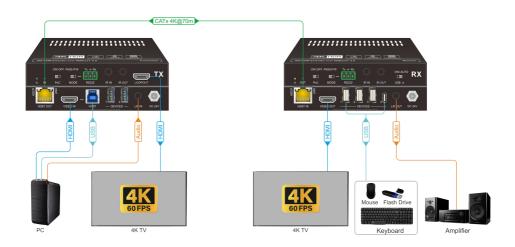
- POWER LED: Illuminates green when power is applied, yellow and green lights flash alternately when the current is too high. (When over the total current limitation for USB devices).
- QUT LED: Illuminates when there is a HDMI display device is connected to HDMI output port and when input source is detected.
- (3) **PoC:** DIP switch for PoC ON/OFF.
- (4) **MODE:** DIP switch for RS232 mode selection.
 - PASS: RS232 pass-through.
 - **FW:** Firmware upgrade.
- (5) **RS232:** 3-pin Phoenix socket, used for upgrading or pass-through.
- 6 IR IN: Connects to the IR receiver for IR pass-through.
- (7) IR OUT: Connects to the IR emitter for IR pass-through.
- **8 USB POWER:** DIP switch for USB power management.
 - ON: USB device ports output power all the time;
 - AUTO(Default): Follow Host, USB device ports will only output power when a
 host is active connected.

Rear Panel



- (1) HDBT IN: RJ45 port to connect the HDBT input port of receiver by CAT6A Ethernet cable. The LINK LED(green LED) illuminates when there is a valid HDBaseT link between the transmitter and the receiver. The HDCP LED(yellow LED) illuminates when the video contains HDCP content, and the HDCP LED flashes when there is no HDCP.
- 2 VIDEO OUT: Connects to HDMI display device.
- ③ DEVICE: 3x type-A USB 2.0 ports and 1x type-C USB 2.0 port share 2A for USB devices (e.g. Mouse, Keyboard and Camera) connection to control the PC which is connected to the HOST port of receiver.
- 4 L/R OUT: 3.5mm jack for audio output.
- **5 DC 24V:** DC connector for the power adapter connection.

System Connection



Technical Specification

MPTP-TUH43R		
Video		
Input	(1) HDBT IN	
Input Connector	(1) RJ45	
Input Resolution	Up to 4K@60Hz 4:4:4	
Output	(1) VIDEO OUT	
Output Connector	(1) Type-A female HDMI	
Output Resolution	Up to 4K@60Hz 4:4:4	
Audio		
Output	(1) L/R OUT	
Output Connector	(1) 3.5mm jack	
Audio Format	3.5mm Audio: PCM 2CH	
Frequency Response	20Hz ~ 20KHz, ±3dB	
Max Output Level	2.0Vrms ± 0.5dB. 2V = 16dB headroom above -10dBV (316mV)	
	nominal consumer line level signal	
THD+N	< 0.05% (-80dB), 20Hz~20KHz bandwidth, 1kHz sine at 0dBFS level (or	
	max level)	
SNR	> 85dB, 20Hz-20kHz bandwidth	
Crosstalk Isolation	> 70dB, 10kHz sine at 0dBFS level (or max level before clipping)	
L-R Level Deviation	< 0.3dB, 1kHz sine at 0dBFS level (or max level before clipping)	
Frequency Response Deviation	< ± 0.5dB, 20Hz – 20kHz	
Output Load Capability	1KΩ and higher (Supports 10x paralleled 10KΩ loads)	
Stereo Channel Separation	>70dB@1KHz	
Devices		
Devices Connector	(3) USB-A,(1) USB-C	
USB Version	USB 2.0	
Devices Power	2A Total	
Control		
Control Part	(4) DEVICE,(1) PoC Switch, (1) MODE Switch, (1) RS232,(1) IR IN, (1) IR OUT, (1) USB power Switch	
Control Connector	(3) Type-A USB 2.0 (1) Type-C USB 2.0	
	(3) 2-pin DIP Switch	
	(2) 3.5mm Jacks	
	(1) 3-pin Terminal Block	
General		

Bandwidth	18Gbps
HDMI Standard	2.0
HDCP Version	Input: HDCP 2.2, HDCP 1.4 compliant;
	Output: Follows the source's HDCP version.
Two-way PoC	Supported two-way 24V
HDMI V2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080P ≤ 15m.
Transmission Standard	HDBaseT
Transmission Distance	4K@60 4:4:4≤ 40m
	4K@30 4:4:4 ≤ 70m
Operation 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	DC24V 1.5A
Power Consumption	28W (Max)
Dimension (W*H*D)	140mm x 21.5mm x 110mm
Net Weight	360g

Note: Please use high-qualified HDMI cable fully compliant with HDMI V2.0 for reliable transmission and connection.