

User Manual

TPUH652

USB-C KVM Extender over HDBaseT3.0



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Version: TPUH652_2022V1.0

Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till October, 2022. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

1. Product Introduction

The TPUH652 is an USB-C KVM Extender Kit that allows one USB channel to be transmitted over distances of up to 40m at 4K@60Hz and 70m at 4K@30Hz via CAT6 cable.

The USB-C KVM Extender Kit includes one transmitter and one receiver. The transmitter features one USB-C input and one HDBaseT3.0 output. For the USB-C input, it provides an AV ideal interface for connecting to the Macbook or other device with SlimPort output. And there's also a USB-C port for charging devices. The receiver features one HDMI output, one HDBaseT3.0 input and 4 USB 2.0 ports for connecting with KVM device such as camera, keyboard and mouse.

1.1 Features

- USB-C input supports 4K@60Hz 4:4:4.
- Supports to transmit up to 40m at 4K@60Hz and 70m at 4K@30Hz.
- Supports bi-direction 24V PoC power supply.
- TX supports USB-C charging port to charge input device
- 5 USB 2.0 ports for connecting with KVM device.
- Micro-USB for firmware upgrade.

1.2 Package List

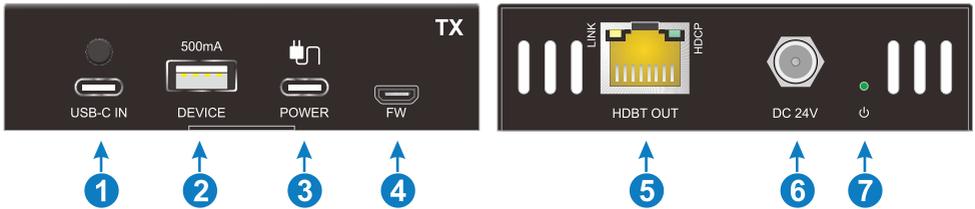
- 1 x Transmitter
- 1 x Receiver
- 1 x Power Adaptor (24VDC, 1.25A)
- 4 x Mounting Ears & 4 x Screws
- 8 x Rubber feet
- 1 x User Manual

2. Specification

	Transmitter	Receiver			
Video					
Input	(1)USB-C IN	(1)HDBaseT IN			
Input Connector	(1) Type-C	(1) RJ45			
Input Resolution	Up to 4K@60Hz 4:4:4	Up to 4K@60Hz 4:4:4			
Output	(1) HDBaseT OUT	(1) HDMI OUT			
Output Connector	(1) RJ45	(1) Type-A female HDMI			
Output Resolution	Up to 4K@60Hz 4:4:4	Up to 4K@60Hz 4:4:4			
Control					
Control Part	(5) DEVICE				
Control Connector	(1) Type-A USB 2.0 5V500mA Power Supply (2) Type-A USB 2.0 5V250mA Power Supply (1) Type-A USB 2.0 5V1A Power Supply (1) Type-C USB 2.0 5V1A Power Supply				
General					
HDCP Version	Input: HDCP 2.2, HDCP 1.4 compliant				
	Output:				
		RXOUT	HDCP 2.2	HDCP 1.4	NO HDCP
	TX IN		HDCP 2.2	NO HDCP	NO HDCP
			HDCP 1.4	HDCP 2.2	HDCP 1.4
		NO HDCP	NO HDCP	NO HDCP	NO HDCP
PoC	Supported bi-directional 24V PoC				
HDMI V2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080P ≤ 15m				
Transmission Distance	4K@60 4:4:4≤ 40m; 4K@30 4:4:4 ≤ 70m				
Operation Temperature	-5 to +55℃(+23° to +131°F)				
Storage Temperature	-25 to +70℃(-13° to +158°F)				
Relative Humidity	10% to 90%, Non-condensing				
Power Supply	24V DC 1.25A				
Power Consumption	30W				
Dimension (W*H*D)	90 x 24 x 140 mm	90 x 24 x 120 mm			
Net Weight	285g	250g			

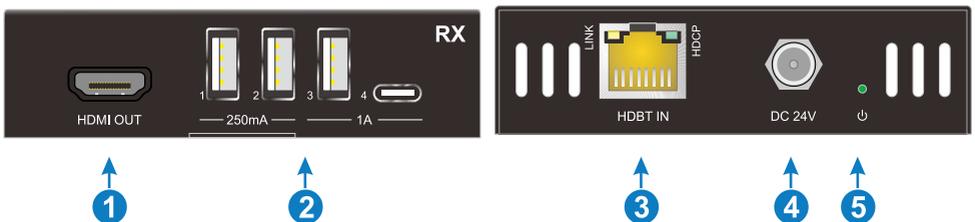
3. Panel Description

3.1 Transmitter



- ① USB-C IN: Connects to the Macbook or other device with SlimPort output.
- ② DEVICE: USB 2.0 Ports for connecting device
- ③ Power: Connects to adapter to charge the USB-C IN
- ④ FW: Micro-USB for firmware upgrade.
- ⑤ HDBT OUT: Connects to the Macbook or other device with SlimPort output.
- ⑥ DC 24V: DC connector for the power adapter connection.
- ⑦ POWER LED: The LED illuminates green when the power is connected.

3.2 Receiver



- ① HDMI OUT: Connects to the HDMI display.
- ② DEVICE: 4 USB 2.0 Ports for connecting KVM device.
- ③ HDBT IN: Connects to the HDBT OUT port of the switcher by a CATx cable.
- ④ DC 24V: DC connector for the power adapter connection.
- ⑤ POWER LED: The LED illuminates green when the power is connected.

4. System Connection

The following diagram illustrates typical input and output connection that can be utilized with the extender:



5. Panel Drawing

