



SCT-HDBTL72H KIT

18G HDMI Extender over CAT5e/6/7



User Manual

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Version: SCT-HDBTL72H KIT_2021V1.0.0

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 May, 2021. 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.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



The SCT-HDBTL72H KIT is a point-to-point HDMI extender set for HDMI V2.0 and IR signals; this kit supports 4K/UHD video @ 60Hz with 4:4:4 Chroma sampling, as well as HDMI data rates up to 18Gbps and HDCP 2.2 compliant. The SCT-HDBTL72H KIT provides HDMI transmission up to 230 feet (70 meters) for 4K@60Hz 4:4:4, or 262 feet (80 meters) for 1080p over single CAT5e/6/7 cable. It supports bi-directional IR, RS232 and 12V PoC, and automatic video resolution down-scaling.

Features

- Supports HDMI V2.0, up to 4K@60Hz 4:4:4, HDR 10, 18G, HDCP 2.2.
 - Extends 4K HDMI signal up to 230 feet (70 meters), or 1080p HDMI signal up to 262 feet (80 meters) over a single CAT5e/6/7 cable.
 - Supports video resolution down-scaling, the 4K input can be automatically degraded to 1080p output on receiver for compatibility with legacy 1080p display device.
 - HDMI loop out on transmitter.
 - Bi-directional IR and RS232 pass-through.
 - Supports bi-directional 12V PoC, only one power supply required.
 - Features visually lossless compression with no latency.
 - Smart EDID management.
 - Compact design, easy to install and simple to operate.
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Packing List

- 1x Transmitter (Tx)
 - 1x Receiver (Rx)
 - 1x IR Receiver
 - 1x IR Emitter
 - 2x 3-pin Terminal Blocks
 - 1x Power Adaptor (12V DC 1A)
 - 1x Quick Operation Guide
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Transmitter Panel Description



1. **CAT OUT:** Connects to the CAT IN port of receiver by CATx cable. It supports 12V PoC and the transmitter can be powered from the receiver. The green LED illuminates when power is applied. The orange LED illuminates when there is a valid HDMI signal input.
2. **IR IN:** Connects to IR receiver for IR pass-through.
3. **IR OUT:** Connects to IR emitter for IR pass-through.
4. **RS232:** Connects to RS232 control device (e.g. PC) or a third-party device to be controlled for RS232 pass-through.
5. **DISPLAY:** Connects to local HDMI display device.
6. **SOURCE:** Connects to HDMI source device.
7. **EDID:** 3-pin DIP switch for EDID setting.
 - **MERGE:** If there are two display devices in this system, the unit will output the video with the lower resolution in this mode to ensure video can be shown on both displays.
 - **BYPASS:** The source device learns the EDID from the remote display connected to the Receiver's HDMI output.
 - **COPY Tx:** The source device learns the EDID from the local display connected to the Transmitter's HDMI loop output.
8. **DC 12V:** DC connector for the power adapter connection.

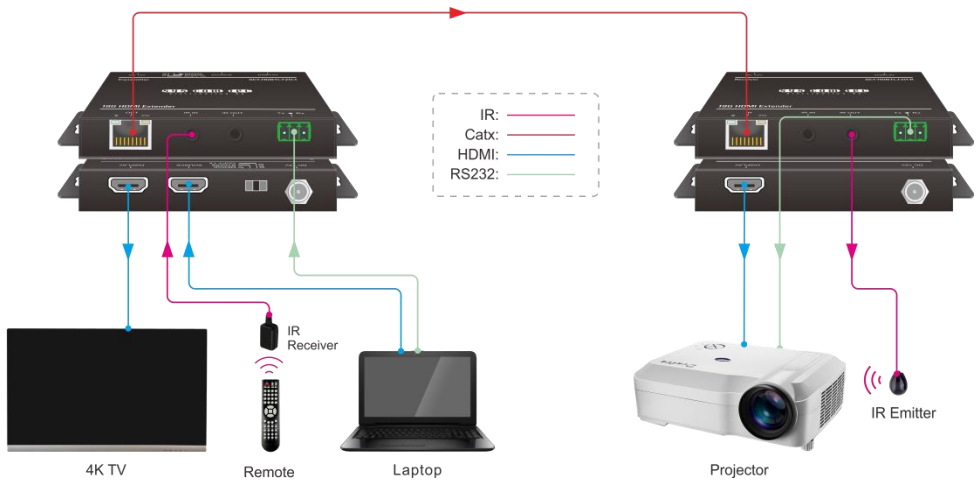
Receiver Panel Description



1. **CAT IN:** Connects to the CAT OUT port of transmitter by CATx cable. It supports 12V PoC and the receiver can be powered from the transmitter. The green LED illuminates when power is applied. The orange LED illuminates when there is a valid HDMI signal input.

2. **IR IN:** Connects to IR receiver for IR pass-through.
3. **IR OUT:** Connects to IR emitter for IR pass-through.
4. **RS232:** Connects to RS232 control device (e.g. PC) or a third-party device to be controlled for RS232 pass-through.
5. **DISPLAY:** Connects to HDMI display device.
6. **DC 12V:** DC connector for the power adapter connection.

Connection Diagram



Note:

- The IR and RS232 commands cannot be triggered simultaneously.
- The CATx cable length should not be less than 15 meters for best video output.

Specifications

Transmitter	
Input	(1) SOURCE
Input Connector	(1) 19-pin type-A female HDMI
Output	(1) DISPLAY, (1) CAT OUT
Output Connector	(1) 19-pin type-A female HDMI, (1) RJ45
Control	(1) IR IN, (1) IR OUT, (1) RS232
Control Connector	(2) 3.5mm mini jacks, (1) 3-pin terminal block
Receiver	
Input	(1) CAT IN
Input Connector	(1) RJ45
Output	(1) DISPLAY
Output Connector	(1) 19-pin type-A female HDMI
Control	(1) IR IN, (1) IR OUT, (1) RS232
Control Connector	(2) 3.5mm mini jacks, (1) 3-pin terminal block
General	
Video Resolution	Up to 4K@60Hz 4:4:4, HDR 10
Color Space	RGB, Rec. 601, and rec. 709 BT2020
HDMI Audio Format	LPCM 7.1 audio, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through.
Transmission Distance	4K: 15 to 70 meters (49 to 230ft) 1080p: 15 to 80 meters (49 to 262ft)
HDMI Version	2.0
HDCP Version	Up to 2.2 (The HDCP content of TX HDMI output follows the remote RX display device's.)
EDID	EDID Setting by 3-pin DIP Switch
Power Supply	Input: 100 to 240V AC, 50/60Hz; Output: 12V DC 1A
Power Consumption	5.6W (Max)
Operation Temperature	-5 to +55°C (+23° to +131°F)
Storage Temperature	-25 to +70°C (-13° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Dimensions (W*H*D)	100mm x 16mm x 80mm (without mounting ears) 127mm x 16mm x 80mm (with mounting ears)
Net Weight	Tx/Rx: 185g

Note: The extender set does not support HBR audio.



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