

HDMI EXTENDER OVER SINGLE NETWORK CABLE

HDMI Extender over CAT5E/6 (120m) with Cascade Function



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ER2852EXC

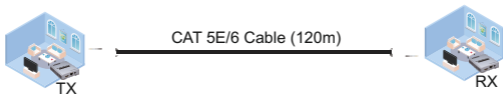
HDMI[™]
HIGH-DEFINITION MULTIMEDIA INTERFACE

Introduction :

This 4K 120M HDMI extender uses one single cat-5E or cat-6 (recommended) cable instead of HDMI cable to extend the 4K signal to 120 meters. The purpose of the extender is to achieve long-distance signal transmission with low-cost wires.

Features:

- 1) Extend HDMI signals up to 120 meters



- 2) Multi-receiver cascade transmission



- 3) 4K Ultra HD Resolution Support: Capable of transmitting video signals with resolutions up to 4K Ultra HD (3840 × 2160 pixels), providing stunning clarity and detail.
- 4) Low power consumption, low temperature and high safety
- 5) Plug-and-Play Installation: Simple and straightforward setup process, requiring minimal configuration or technical expertise. Just connect the transmitter unit to the video source, the receiver unit to the display, and link additional extenders as needed for cascade connection

Specifications

Length of CAT-5E/CAT-6 cable between Rx and TX: up to 120 meters

HDMI input: 4K/1080p/720p/576p/576i/480p/480i

HDMI output: 4K/1080p/720p/576p/576i/480p/480i

Support audio format: DTS/Dolby/LPCM

Max bandwidth: 340MHz

Max baud rate: 3.4Gbps x 3

Input video signal: 0.5~1.5 Volts p-p

Output DDC signal: 5 Volts p-p (TTL)

Input HDMI cable distance: ≤15m AWG26 HDMI standard cable

Output HDMI cable distance: ≤15m AWG26 HDMI standard cable

TX Max working current: 350mA

RX Max working current: 200mA

Power Input: AC (50HZ, 60HZ) 100V-240V

Power Output: DC5V/1A

Operating Temperature Range: -15 to +55°C

Operating Humidity Range: 5% to 90%RH (No Condensation)

Dimension (L x W x H): 94 x 84 x 24 mm

TX Weight: 223g

RX Weight: 223g

Application diagrams

Cascade connection of 4K 120M HDMI extenders enables long-distance transmission of high-resolution audio and video signals, making them ideal for applications such as home theaters, digital signage networks, and corporate presentations where maintaining signal quality over extended distances is crucial.

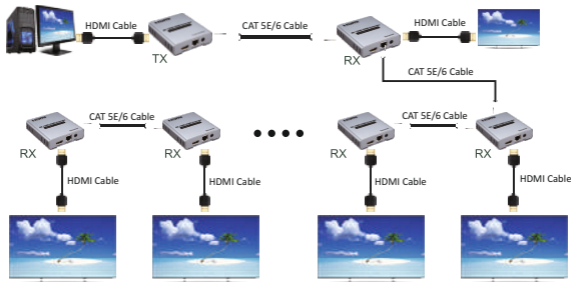


Connection diagrams

Point to point application



Multi-receiver cascade transmission :

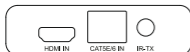
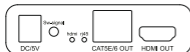


Connection and operation

1. Connect source device with transmitter by one HDMI cable, the cable max length is 15 meters.
2. Connect display device with receiver by one HDMI cable, the cable max length is 15 meters.
3. Connect TX with RX by one cat5e or cat 6 (recommended), the cable max length is 120 meters.
4. Connect One pair of IR RX and IR TX cable to the 3.5mm IR RX and IR TX ports of the transmitter and receiver respectively.
5. Connect the power supply to the TX and RX.
6. LED indicator: When the input signal is working, there is steady blue light.

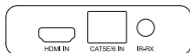
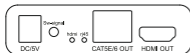
Physical interface diagram

Transmitter:



Port	Description
DC/5V	5V power supply for the Transmitter
Sw-signal	Switch input signal button
HDMI	HDMI input indicator
RJ45	Network port input indicator
CAT5E/6 OUT	Network cable output port
HDMI OUT	HDMI output port
HDMI IN	HDMI input port
CAT5E/6 IN	Network cable input port
IR-TX	Connect to the IR transmitting port

Receiver:



Port	Description
DC/5V	5V power supply for the Receiver
Sw-signal	Switch input signal button
hdmi	HDMI input indicator
rj45	Network port input indicator
CAT5E/6 OUT	Network cable output port
HDMI OUT	HDMI output port
HDMI IN	HDMI input port
CAT5E/6 IN	Network cable input port
IR-RX	Connect to the IR receiving port

Package Contents

1. Transmitter: 1PCS
2. Receiver: 1PCS
3. IR cable: 1Pair
4. 5V/1A Power adapter: 2PCS
5. User Manual: 1PCS