

HDMI EXTENDER OVER SINGLE NETWORK CABLE

HDMI Extender over CAT5E/6 (60m)



Where every Moment comes Alive

ER2850EX

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

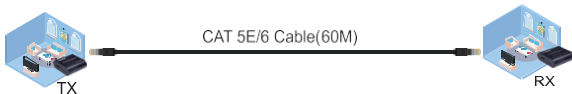
Introduction:

The Extender uses single cat5e or cat6 (recommended) cables instead of HDMI cable to transmit high definition signal up to 60 meters, cutting down the cost. This technology allows you to transmit high-definition audio and video signals from a source device, such as a computer or Blu-ray player, to a display device, such as a TV or projector, located up to 60 meters away.

The extender typically consists of two main components: a transmitter and a receiver. The transmitter is connected to the source device via a standard HDMI cable, while the receiver is connected to the display device using another HDMI cable. The transmitter and receiver are then linked together using CAT5E or CAT6 Ethernet cables, which carry the HDMI signals over longer distances without signal degradation.

Features:

- Support **HDMI 1.3**.
- **Long-distance transmission:** Capable of extending HDMI signals up to 60 meters, allowing flexibility in the placement of source and display devices.



- **1080P video quality:** Support highest video resolution 1080P @60Hz.
- **Plug-and-play installation:** Easy to set up without the need for additional software or drivers. Simply connect the transmitter and receiver to the source and display devices, respectively, and link them with Ethernet cables.
- **Support for various HDMI sources and displays:** Compatible with a wide range of HDMI devices, including computers, gaming consoles, Blu-ray players, and TVs or projectors.
- Low power consumption, low temperature and high safety.

Specifications:

- **CAT-6/CAT-5E Cable Length (Rx to Tx):** Up to 60 meters.
- **HDMI Input Resolutions Supported:** 1080p, 1080i, 720p, 576p, 576i, 480p, 480i.
- **HDMI Output Resolutions Supported:** 1080p, 1080i, 720p, 576p, 576i, 480p, 480i.
- **Max Bandwidth:** 150MHz.
- **Max Baud Rate:** 4.5Gbps.
- **Input Video Signal:** 0.5~1.5 Volts p-p.
- **Output DDC Signal:** 5 Volts p-p (TTL).
- **Input HDMI Cable Distance:** ≤10m (AW G26 HDMI standard cable).
- **Output HDMI Cable Distance:** ≤15m (AW G26 HDMI standard cable).
- **TX & RX Max Working Current:** 300mA.
- **Power Adapter:** Input: AC (50Hz, 60Hz) 100V-240V, Output: DC 5V/1A.
- **Operating Temperature Range:** -15°C to +45°C.
- **Operating Humidity Range:** 5% to 90% RH (No Condensation).
- **Dimensions (L x W x H):** 60 x 56 x 19 mm.
- **Weight:** TX Unit: 53g / RX Unit: 53g.

Installation & Operation Instructions:

1. Connect the HDMI Source:

- Use an HDMI cable (maximum **10 meters**) to connect the **source device** (e.g., DVD player, set-top box) to the **TX Extender**.

2. Connect the Display Device:

- Use an HDMI cable (maximum **15 meters**) to connect the **RX Extender** to the **display device** (e.g., TV, projector, monitor).

3. Connect TX and RX Extenders:

- Use a **single CAT-5E or CAT-6 cable (CAT-6 recommended)** to connect the **TX Extender** to the **RX Extender**.

- Maximum cable distance: **60 meters**.

4. Power Connection:

- Connect the **5V power adapter** to both the **TX** and **RX Extenders**.

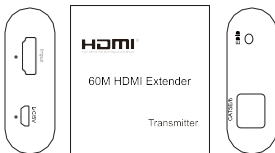
5. LED Indicator Light:

- **TX Extender LED:** Turns **blue** when there is a signal input.
- **RX Extender LED:** Turns **blue** when there is a signal input.

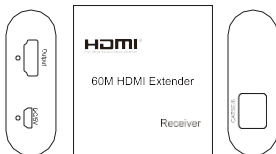
6. EDID Button:

- Allows switching between **720P** and **1080P**.
- Default EDID is **1080P** when the power is turned on.

Physical interface diagram

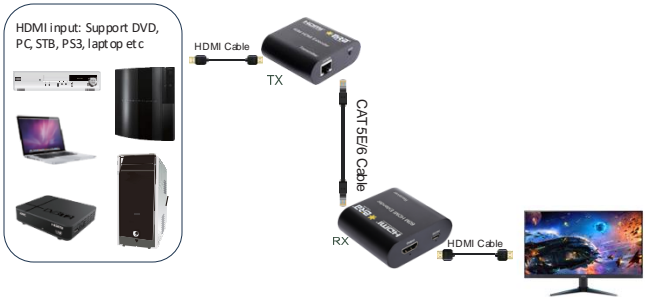


Port	Function description
Input	HDMI Input port
DC/5V	5V DC Power input port
CAT5E/6	Cat5e/6 cable connection port
EDID	1080P and 720P switch button (press for 3 seconds)



Port	Function description
Output	HDMI Output port
DC/5V	5V DC Power input port
CAT5E/6	Cat5e/6 cable connection port

Connection diagram:



Application diagrams:

HDMI extenders are used in audio-visual conference, command and control center, ticketing platform, home theater, multi-media teaching, conference system and so on.



Audio-Visual Conference



Command and Control Center



Home Theatre

The Package includes:

- | | | | |
|----------------|------|---------------------|------|
| 1. TX Extender | 1PCS | 3. Micro USB cables | 2PCS |
| 2. RX Extender | 1PCS | 4. User Manual | 1PCS |