

## HDMI EXTENDER OVER IP

### HDMI Extender over IP (150m)



*Where every Moment comes Alive*

**ER2853EXIP**

**HDMI™**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

## Introduction

This EiRA 150M HDMI IP Extender is a powerful solution designed for high-resolution audio and video transmission over long distances. Utilizing the TCP/IP standard, this extender efficiently transmits HD content up to 150 meters away from your source device, such as a DVD player or computer, using a single CAT5e/6 cable. With support for multiple transmission modes, including point-to-point, point-to-multipoint, and cascade connections, this extender provides flexibility for various AV setups. Whether for home entertainment, professional presentations, or large-scale digital signage applications, the 150M HDMI IP Extender ensures seamless and high-quality HDMI signal distribution.

## Features

- **H.264 video compression** with a transmission rate of **16Mbps** for efficient data transfer
- Supports **multiple transmission modes**:
  - Point-to-point
  - Point-to-multipoint
  - Cascade connection
- **Complies with the 802.3 Ethernet standard** for reliable networking
- **IR remote control** support for easy operation
- **HDMI loop-out function** on the transmitter for local monitoring
- **Plug-and-play hardware design** – no additional software required

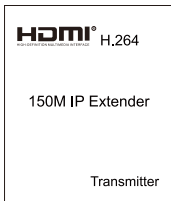
## Specifications

- **HDTV Resolutions:** 480p, 720p, 1080p
- **Audio Sample Rate:** 32kHz, 44.1kHz, 48kHz
- **IR Remote Control:** 38 kHz (NEC)
- **Power Adapter:** DC 5V/1A
- **Max Power Consumption:**
  - **HDMI Sender:** 2.5W
  - **HDMI Receiver:** 2W

- **Size (L×W×H):** 93 × 79 × 27 mm
- **Weight:** 228g × 2
- **Operating Temperature & Humidity:** 0°C – 45°C / 10% – 80% RH (no condensation)
- **Storage Temperature & Humidity:** -10°C – 70°C / 5% – 90% RH (no condensation)

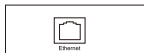
## Physical interface diagram

### HDMI Transmitter



Port	Description
DC/5V	5V power supply for the transmitter
Reset	Press the key, the device will re-start
IR-TX	Connect IR transmitter
HDMI - IN	HDMI input ,connect HDMI signal source
HDMI - OUT	HDMI output, connect HDMI display device
Ethernet	Network interface by cat5e/6

### HDMI Receiver:

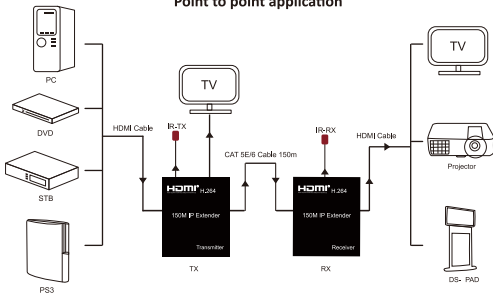


Port	Description
DC/5V	5V power supply for the receiver
Reset	Press the key, the device will re-start
IR-RX	Connect IR transmitter
HDMI - OUT	HDMI output, connect HDMI signal device
Ethernet	Network interface by cat5e/6

# Application diagrams

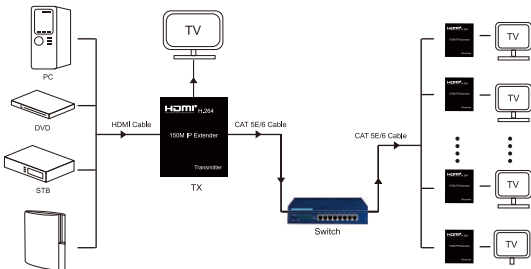
## Application 1:

### Point to point application



## Application 2:

### Point to multipoint application



## Application Industries

The 150M HDMI Extender over IP is widely used in various applications, including audio-visual conferences, command and control centers, ticketing platforms, home theaters, multimedia teaching, and conference systems. Its ability to transmit high-resolution HDMI signals over long distances makes it an ideal solution for professional and home environments, ensuring seamless connectivity and high-quality audio-visual performance.

## Connection and Operation

1. Connect the HDMI source (such as DVD, PS3, STB) to the “HDMI IN” port of the transmitter using an HDMI cable.
2. Connect the “HDMI OUT” port of the receiver to the HDTV display using an HDMI cable.
3. Connect the transmitter and receiver with a CAT5e/6 cable (recommended). The maximum transmission distance is 150 meters.
4. Connect the IR receiver to the “IR-RX” port on the receiver and the IR transmitter to the “IR-TX” port on the transmitter. Ensure that the IR transmitter is aimed at the IR port of the source device.
5. Connect two 5V power supplies to the transmitter and receiver, then power on the HDTV display and HDMI source.

## Package Contents

- Transmitter – 1 PCS
- Receiver – 1 PCS
- 5V/1A Power Adapter – 2 PCS
- IR Cable – 1 Pair
- User’s Manual – 1 PCS