

HDMI SPLITTER

HDMI Splitter 1x4 (8K60Hz)



Where every Moment comes Alive

ER5012SP4

Introduction

The **1x4 HDMI Splitter** allows one HDMI source device to be connected to **four HDMI displays simultaneously**, such as TVs, monitors, or projectors. It is designed to distribute a single high-definition signal to multiple screens while maintaining excellent image and sound quality.

The unit can also be used as an **HDMI signal repeater**, helping to regenerate and stabilize the signal for long-distance cable installations. It supports ultra-high resolutions up to **7680 × 4320 @ 60Hz**, delivering extremely sharp and detailed video output.

This splitter features **advanced EDID management** with **eight selectable EDID modes**, allowing users to optimize compatibility between different source and display devices. It also includes a **built-in IR extension function** and can work with compatible HDMI 2.0 repeaters equipped with an IR receiver, enabling remote control of the source device.

Features

- **HDR support:** Enhances brightness, contrast, and colour depth to deliver more realistic and vivid images on compatible displays.
- **3D video format support:** Allows connection to 3D-enabled sources and displays for immersive viewing experiences.
- **CEC support (HDMI Output 1 only):** Enables compatible HDMI devices to control each other using a single remote control, simplifying system operation.
- **Ultra-high-definition resolution support:** Supports resolutions up to **7680 × 4320 at 60Hz**, providing extremely sharp and detailed video quality suitable for professional and high-end home entertainment applications.
- **High bandwidth transmission:** Supports a maximum data rate of **40 Gbps**, ensuring stable and smooth signal transmission for high-resolution and high-frame-rate video.
- **Deep colour support:** Supports **8-bit, 10-bit, and 12-bit deep colour**, allowing smoother colour gradients and more accurate colour reproduction.
- **Built-in IR extension function:** Allows remote control of the source device when used together with a compatible HDMI 2.0 repeater equipped with an IR receiver.
- **EDID management support:** Includes EDID management to improve compatibility between different HDMI sources and displays, helping to ensure correct resolution and audio output.
- **IR-TX support on HDMI Outputs 2, 3, and 4:** Provides flexible infrared control options for multi-display installations.

Specifications

HDMI Resolution	Up to 7680 × 4320 @ 60Hz
Video Format	8-bit / 10-bit / 12-bit Deep Colour
Audio Format	DTS-HD, Dolby TrueHD, DTS, Dolby AC-3, DSD
Maximum Data Rate	40 Gbps
Input Cable Distance	≤ 5 m (8K@60Hz, HDMI 2.1 standard cable)
Output Cable Distance	≤ 5 m (8K@60Hz, HDMI 2.1 standard cable)
Maximum Working Current	0.7 A
Power Adapter	Input: AC 100–240V, 50/60Hz • Output: DC 5V / 2A
Operating Temperature	-15°C to +55°C
Dimensions (L × W × H)	211 × 78 × 27 mm
Weight	504 g

Application diagrams



Audio-visual conference

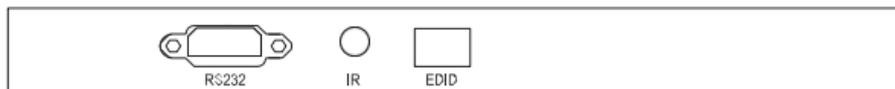


TV market



Home theater

Physical interface diagram



Interface	Functional description
RS232	RS232 port, serial port on line upgrade
IR	IR TX Extension Interface
EDID	DIP switch, using for EDID management
DC/5V	5V Power Interface
OUTPUT1-4	HDMI output port 1-4
INPUT	HDMI input port

IR Extension description

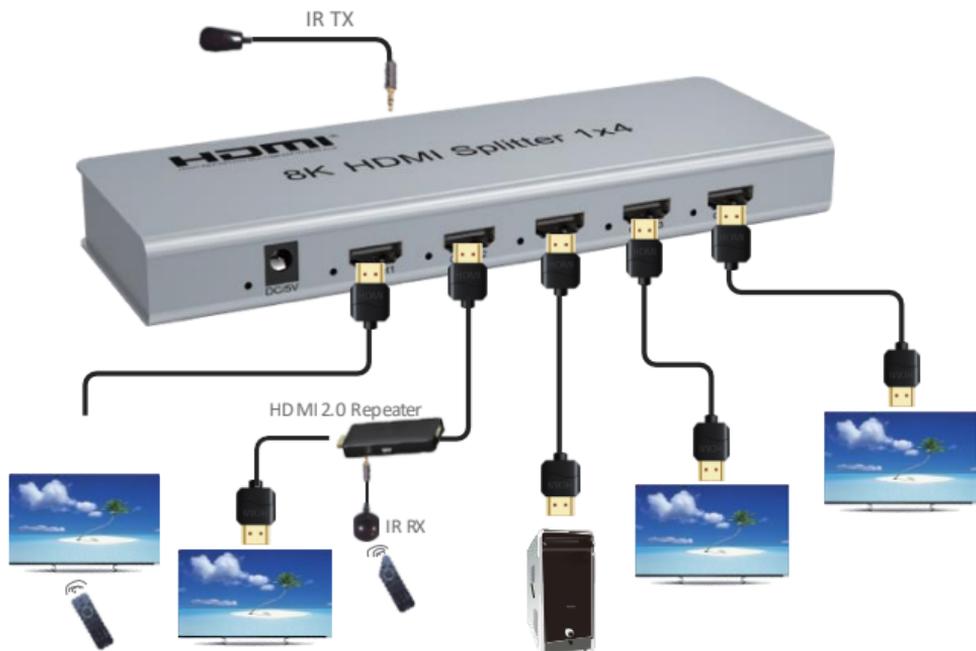
There is an IR TX Extension port, it can work with an optional HDMI 2.0 repeater which works as IR-RX and IR extended via HDMI cable.

DIP EDID Switch Description

1	2	3	4	
X	0	0	0	copy output1 EDID only
X	0	0	1	Downward compatibility(1-4) outputs
X	0	1	0	4K/60Hz 2ch
X	0	1	1	1080p 3D 2ch
X	1	0	0	8K/60Hz 5.1ch
X	1	0	1	4K/30Hz 2ch
X	1	1	0	1080p 2D 2ch
X	1	1	1	1080p 2D 5.1ch

DIP 1 is used for upgrades, 1 is upgrading mode, 0 is normal working mode (switch down is 1, otherwise is 0)

Connection diagrams



Connection and operation

- 1: Connect the HD source to the splitter input with one HDMI cable
- 2: Connect the splitter output to the displays with 4 HDMI cables
- 3: Connect 5V/2A power adapter to the splitter

The package includes

- | | | |
|------------------|-----|-----------------------------|
| 1. HDMI splitter | 1pc | 4: IR cable (optional) |
| 2. Power adapter | 1pc | 5: HDMI repeater (optional) |
| 3. User manual | 1pc | |