



RKV824P-N

1X4 Splitter with Extender

The 1x4 HDMI Splitter Extender is a device designed to distribute one HDMI input signal to up to four HDMI output displays while also supporting long-distance extension over network cables. It is suitable for applications such as home theaters, conference rooms, classrooms, and digital signage where a single video source needs to be shown on multiple screens simultaneously.

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Transmission and Video

This splitter extender uses a splitter transmission protocol and supports transmission distances of up to 120 meters over CAT5/5e/6 network cable. The HDMI signal conforms to the HDMI 1.4b standard, providing support for a wide range of resolutions including 480p, 576p, 720p, 1080i, and 1080p, as well as popular computer display modes such as 1024×768, 1280×1024, and 1920×1080.

Audio and Interfaces

The device supports up to 5.1-channel digital audio, allowing high-quality sound to be transmitted along with video. It offers an HDMI input for the source device, four HDMI outputs for the displays, and uses RJ45 network ports for the extender function, making it easy to integrate into existing cabling infrastructures.

Electrical and Environmental

Power is supplied through a DC 5 V adapter, and the power consumption of each unit is relatively low, which helps in continuous operation scenarios. The working temperature range is typically around 0–60 °C with storage temperatures roughly –20–70 °C, and it is designed to operate in normal indoor humidity conditions, making it reliable for most indoor environments.

Physical Characteristics

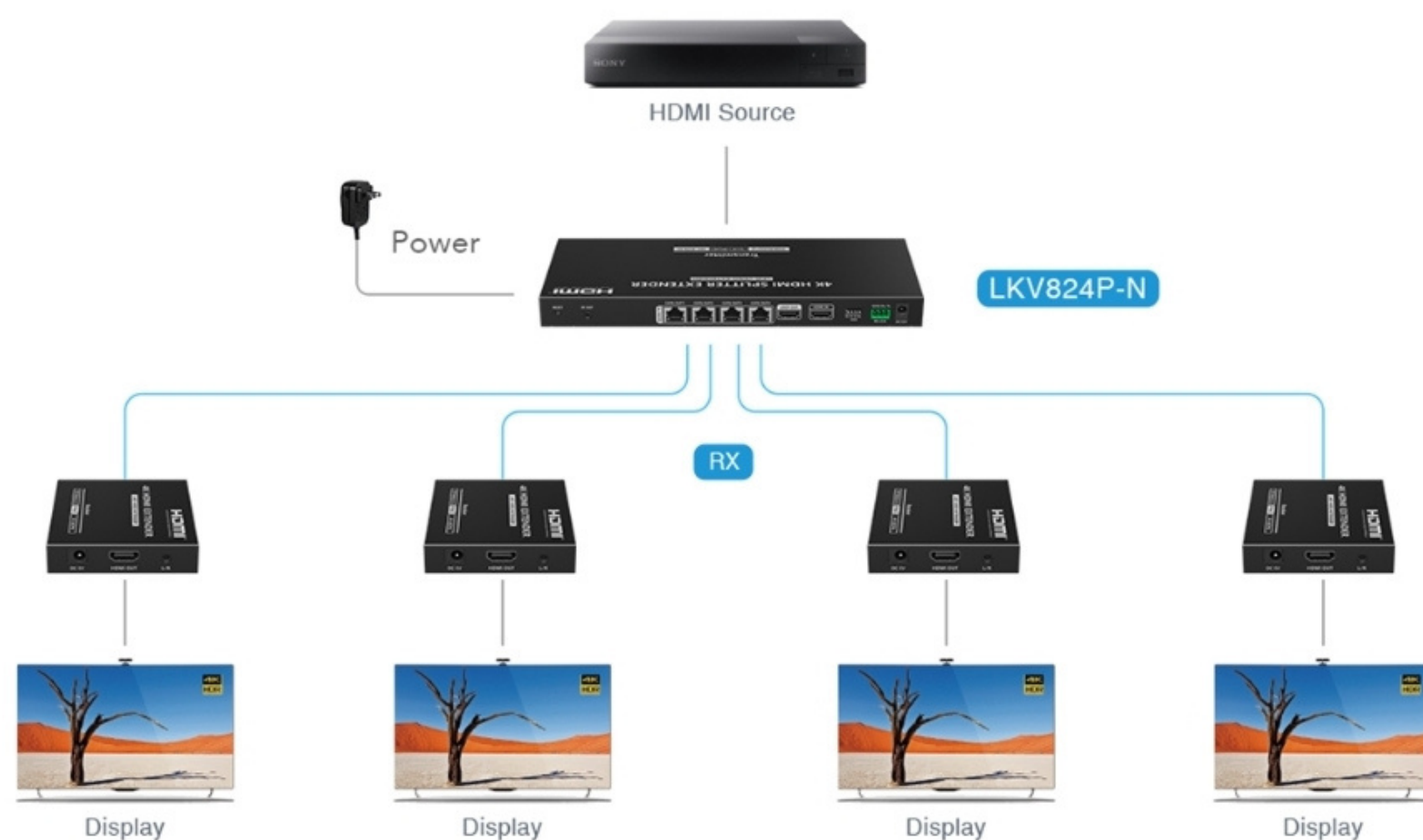
The splitter extender usually comes in a compact metal housing that helps with heat dissipation and durability. Its small size allows it to be placed behind displays, inside cabinets, or on equipment racks, and it is generally finished in a black color for a professional appearance that blends with most AV setups.

Network Transmission Feature

One more important feature of this 1×4 HDMI Splitter Extender is its ability to send HDMI signals over standard CAT5/5e/6 network cables, allowing a transmission distance of up to 120 meters between the transmitter and receiver units. This long-distance transmission capability makes it highly suitable for large venues such as auditoriums, shopping malls, and multi-room setups, where running long HDMI cables would be expensive or impractical, while still maintaining stable high-definition video and audio quality on all connected displays.

1 IN 4 Out

Distribute 1 HDMI source to 4 displays over network cables simultaneously.



4K@60Hz HDR

Support 4K60Hz UHD video transmission, the resolution can reach 3840x2160@60Hz, the image can be more clear, higher saturation and showed more outstanding details.



HDMI Source



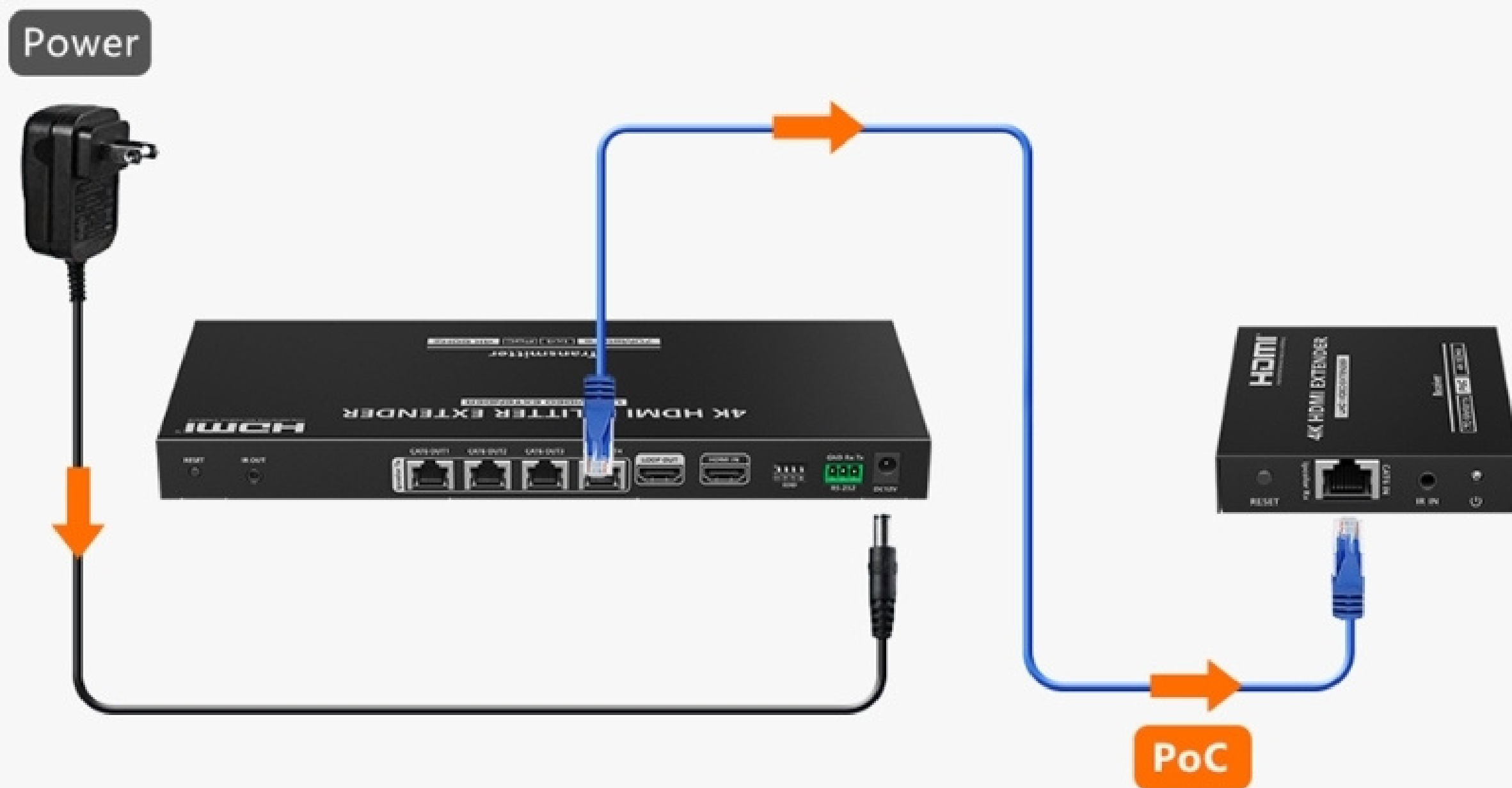
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PoC Single Power Supply

The transmitter can be powered directly to the receiver via a cable, reducing cable clutter.



EDID and RS-232 Control

Support EDID to set resolution and RS-232 control of upper computer.



EDID Control



RS232 Control

Specification

- Transmission protocol: Splitter type HDMI distribution.
- Transmission distance: Up to 120 m over CAT5/5e/6 network cable.
- Transmission category: CAT5/5e/6 cable supported.
- HDMI version: HDMI 1.4b or 2.0 (as listed in the product sheet).
- Supported resolutions: 480p, 576p, 720p, 1080i, 1080p and PC modes like 1024×768, 1280×1024, 1920×1080.
- HDMI protocols: HDCP support and standard HDMI video/audio formats.
- Audio formats: Up to 5.1-channel digital audio.
- Network port: RJ45 for extender link between transmitter and receivers.
- Working temperature: Around 0–60 °C.
- Storage temperature: Around –20–70 °C.
- Humidity (operational): Standard indoor non-condensing range.
- Protection: ESD protection for interface safety.

I/O Ports

TX



RX

