



1x8 HDMI Splitter Extender

Model Number :RKV828P-N

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1x8 HDMI Splitter Extender

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This 1x8 HDMI Splitter Extender is a professional-grade device designed to distribute a single HDMI source to eight different displays over long distances . It utilizes the ipcolor transmission protocol to ensure stable and high-quality signal transmission . The primary function of this unit is to take one HDMI input and split it into eight identical outputs, making it ideal for applications such as digital signage, large-scale presentations, and multi-room video distribution where the same content needs to be displayed on multiple screens simultaneously .

Extended Signal Transmission

This extender is capable of transmitting HDMI signals over a significant distance without degradation . By using CAT6, CAT6A, or CAT7 network cables, the device can extend the signal up to 70 meters (approximately 230 feet) . This long-range capability makes it suitable for use in large venues, commercial buildings, and educational facilities where the source device and displays are located far apart from each other .



High-Resolution Video and Audio

The device supports modern video standards, including HDMI 2.0 and HDCP 2.2, ensuring compatibility with the latest 4K content and displays . It handles a wide range of video resolutions, from standard definition up to 4K at 60Hz . In addition to high-resolution video, it supports various audio formats to deliver a complete audiovisual experience, including LPCM, DTS, and Dolby Digital for both 4K and 1080p resolutions, as well as 5.1/Dolby Digital Plus .

Robust System Protection

Built to withstand electrical disturbances, this splitter extender features multiple layers of protection . It includes robust ESD (Electrostatic Discharge) protection, with Level 2 protection for both contact and air discharge, compliant with the IEC61000-4-2 standard . Furthermore, the device is equipped with both lightning and surge protection, safeguarding the connected equipment from power fluctuations and electrical storms, which enhances its reliability in various installation environments



Control and Connectivity

For enhanced control and integration into professional AV systems, the unit includes an IR passback function . This feature allows the user to control the source device from the remote display location using a standard remote control, supporting IR frequencies from 20KHz to 60KHz . Additionally, it is equipped with an RS-232 serial port for more advanced control and integration with third-party automation systems, following standard RS-232 communication levels .



Industrial Design and Power

The extender is housed in a durable black iron casing, designed for reliability and longevity in commercial or industrial settings . The transmitter (TX) requires a DC12V/3A power supply, and the total power consumption for the transmitter and receiver (RX) pair is less than 24 watts . It is designed to operate in a wide range of environmental conditions, with a working temperature range of -20°C to 60°C and a storage temperature range of -30°C to 70°C, and it can operate in humidity levels from 0% to 95% without condensation .

EDID and RS-232 Control

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



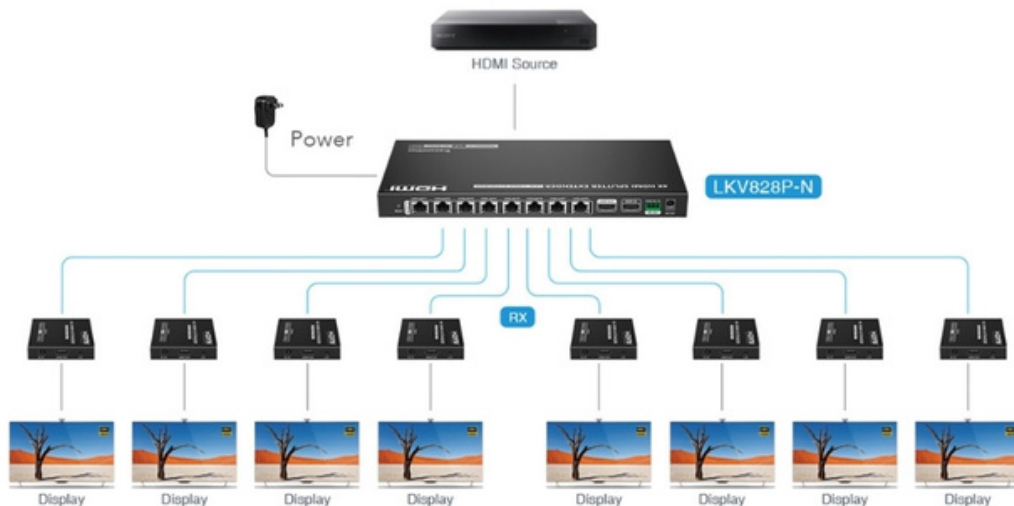
EDID Control



RS232 Control

1 IN 8 Out

Distribute 1 HDMI source to 8 displays over network cables simultaneously.



I/O Ports

TX

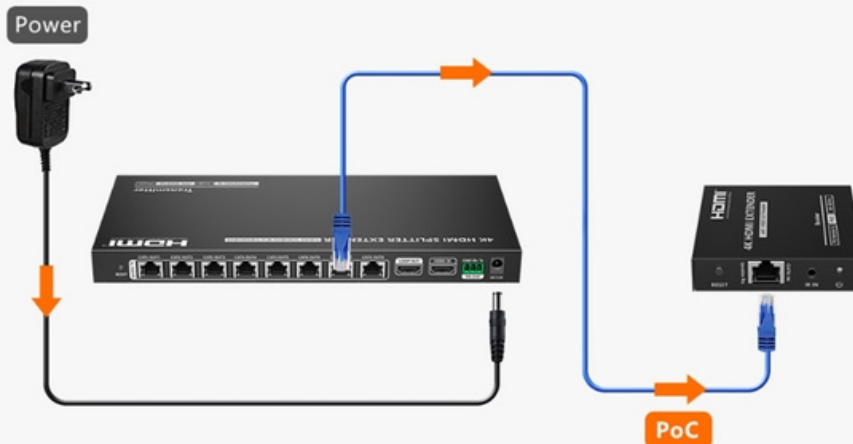


RX



PoC Single Power Supply

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



Specifications Table

Specification	Details
Transmission protocol	ipcolor
Distribution mode	1 IN 8 OUT
Transmission distance	CAT6/6A/7 up to 70m
HDMI signal	HDMI 2.0, HDCP 2.2
HDMI Resolution	800x600@60Hz, 1024x768@60Hz, 1280x720@60Hz, 1280x960@60Hz, 1366x768@60Hz.
Audio formats	4K: LPCM/DTS/Dolby Digital 5.1; 1080P: LPCM/DTS/Dolby Digital; 5.1/Dolby Digital plus(+)
IR	Support IR passback function (20KHz-60KHz)
RS-232	3 pin: TXD-RXD-GND, follows RS-232 levels
Working temperature	-20-60Â°C
Storage temperature	-30-70Â°C
Humidity (no condensation)	0-95% RH
Protection	ESD protection: 1a Contact discharge level 2, 1b Air discharge level 2.
Power supply	TX: DC12V/3A
Power consumption	TX+RX<24W
Material	Iron
Color	Black
Weight	TX: 716g, RX: 145g
Dimension	TX: 365.8(L) x 120.0(W) x 25.8(H)mm, RX: 80(L)x78(W)x16.5(H)mm

