



RKV565W-US

4K60HZ HDMI Wall plated to wall plated Extender 70 meters

This 4K@60Hz HDR HDMI Wall-Plate Extender is a built-in wall module that sends HDMI audio and video over a single CAT network cable between a source and a display, supporting up to 18 Gbps bandwidth for 4K UHD signals. It is designed for clean, permanent installations in meeting rooms, classrooms, and home theaters, combining high-resolution video, digital audio, HDCP compliance, and power over cable into a neat wall-plate format for reliable long-distance HDMI extension.

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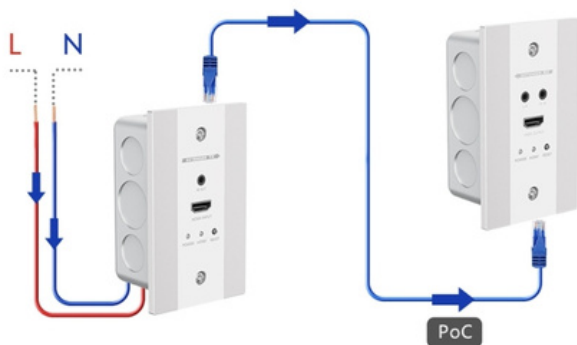
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Overview

This is a 4K@60Hz HDR HDMI wall-plate extender that sends high-quality audio and video over a single network cable between a source device and a display. It integrates neatly into a wall, so it is suitable for conference rooms, classrooms, home theaters, and other fixed installations where a clean look and long-distance HDMI extension are needed.

Video and audio performance

The extender supports resolutions up to 4K at 60 Hz with HDR, giving a sharp and smooth picture for modern TVs, monitors, and projectors. It is compatible with multiple formats such as 4K2K, 1080p, 1080i, 720p, and 480p, allowing it to work with older and newer equipment. Audio is transmitted together with video and supports common digital audio formats, so you can carry both sound and picture through one link without separate audio cabling.



Transmission and interface

The unit uses a single CAT-series network cable between the wall-plate transmitter and the receiver, which simplifies long-distance runs through walls or conduits. HDMI is the input/output interface, so it can connect directly to standard Blu-ray players, PCs, media boxes, and displays without adapters in most cases. The device complies with HDCP (content protection) requirements, ensuring it works with protected sources like streaming boxes and disc players.

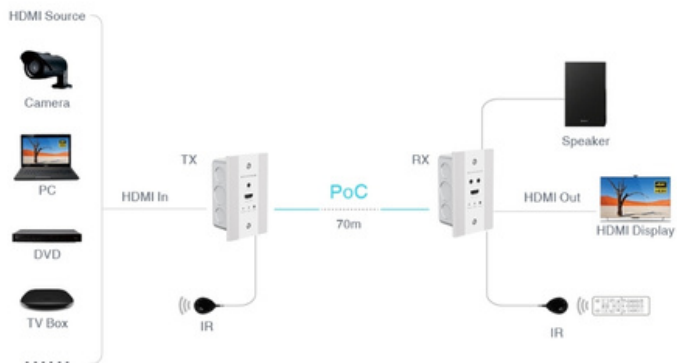
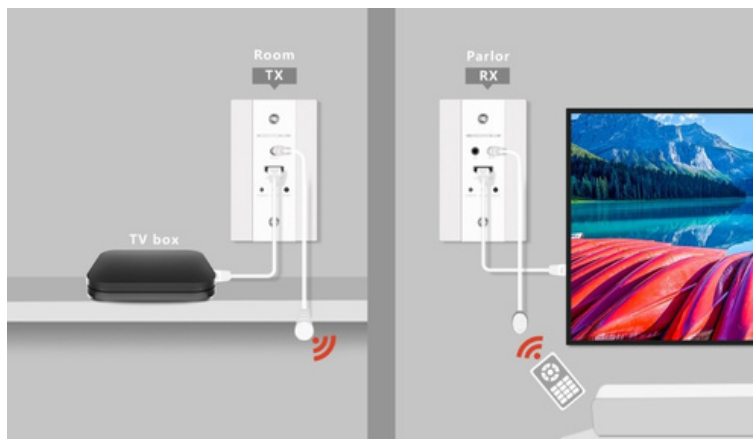
Future-proof features

- 4K@60Hz HDR support keeps it compatible with current and upcoming UHD content.
- HDCP support maintains operation with new protected media sources.
- Use of common CAT network cabling allows easy upgrades or replacements in existing structured wiring.
- Wall-plate form factor supports long-term fixed installations in offices, schools, and homes.

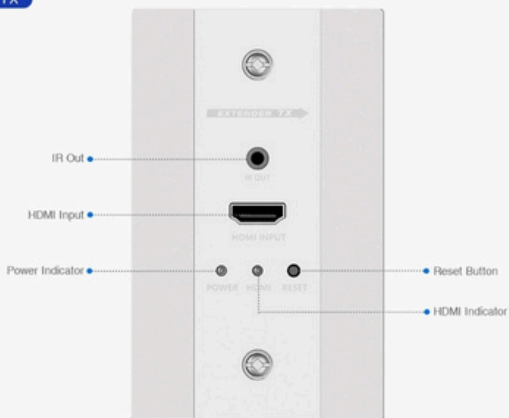
Power, control, and physical design

Power is typically provided through an external adapter or via PoC/PoE style power sharing between transmitter and receiver, reducing the number of sockets needed at the wall. The product is built as a wall-plate module with standard dimensions so it can fit common electrical boxes and blend into interior design.

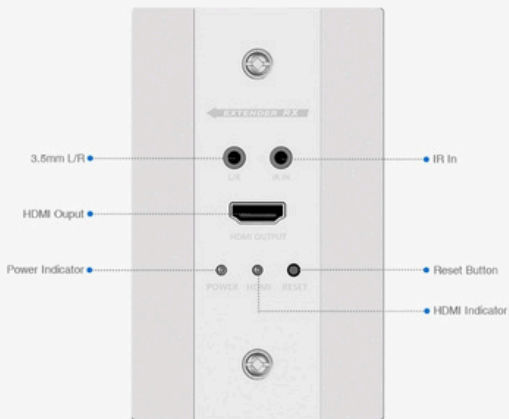




TX



RX



Specifications

- HDMI cable type: CAT6.
- Maximum output power: 500 mW.
- Maximum transmission bandwidth: 600 MHz.
- EDID management: Supported.
- Compatibility: HDMI 2.0; backward compatible with HDMI 1.4/1.3/1.2; HDCP 2.2, 1.4.
- Supported resolutions: Up to 4K@60Hz (4:4:4), including 4K@30Hz, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i.
- Transmission distance: CAT6 up to 40 m at 4K@60Hz; up to 70 m at 1080p.
- Audio formats: Up to 7.1-channel LPCM, Dolby Digital, DTS; up to 192 kHz sample rate.
- Working temperature: 0–70 °C.
- Storage temperature: –10–80 °C.
- Power supply: 12 V DC 1 A (PoC/PoE between TX and RX).
- Power consumption: TX ≤ 7 W, RX ≤ 5 W.
- HDMI compliance: HDMI 2.0b, HDCP 2.2, HDCP 1.x.
- Control: Bi-directional IR; RS-232 passthrough (depending on model).
- Housing: Metal shell, wall-plate form factor. Dimensions (per unit): Approx. 86 × 86 × 33 mm (EU-type wall plate).

