

4K HDMI HDBaseT EXTENDER 100M HE1204KRX

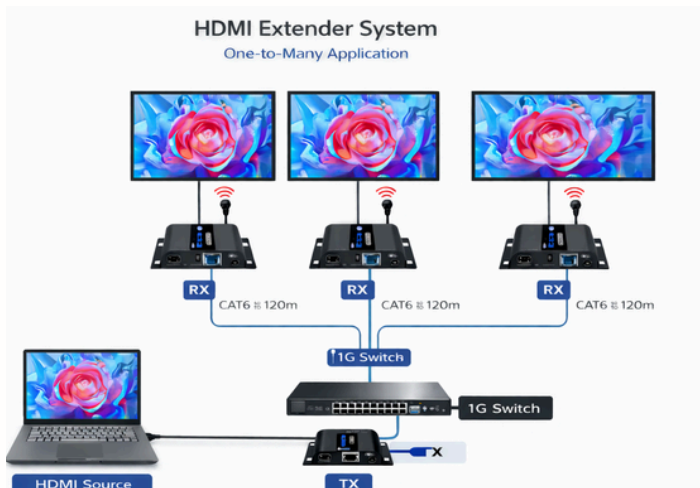


FEATURES

This HDMI receiver is designed to work with a compatible transmitter to receive high-definition HDMI signals over long distances via standard CAT5e/6 network cables. It supports video resolution up to 4K@60Hz with high bandwidth performance, ensuring clear and stable image output for professional AV applications. The receiver supports signal transmission up to 120 meters over CAT6 cable and can be deployed in one-to-one or one-to-many configurations through a Gigabit network switch, making it suitable for scalable distribution systems. It features bi-directional IR pass-through (20kHz-60kHz), allowing remote control of source devices from the display side. With plug-and-play installation, firmware upgrade via Micro USB, and built-in protection against ESD, surge, and lightning.

- Supports HDMI output up to 4K@60Hz (4:4:4) resolution
- Compliant with HDMI 2.0 and HDCP 1.4 / HDCP 2.2 standards
- Receives HDMI signal over CAT5e/CAT6 cable up to 120 meters
- Supports one-to-one and one-to-many distribution via Gigabit network switch
- Enables scalable system expansion with multiple receivers (RX)
- Supports bi-directional IR pass-through (20kHz-60kHz) for remote control
- Provides low latency signal decoding for smooth video playback
- Plug-and-play operation with no configuration required
- Supports firmware upgrade via Micro USB
- Built-in ESD protection, surge protection, and lightning protection

APPLICATION EXAMPLE



SPECIFICATION

Technical

| | |
|-----------------------|--|
| HDMI Standard | - HDMI 2.0 |
| HDCP | - HDCP 1.4 / HDCP 2.2 |
| Max Resolution | - 4K@60Hz (3840×2160), Backward compatible |
| Video Bandwidth | - 18Gbps |
| Transmission Latency | - 1080P: 80-130ms - 4K: 60-200ms |
| Transmission Distance | - CAT6: 120m |

Connection

| | |
|------------------|--------------------------------|
| HDMI Output (RX) | - 1 × HDMI |
| Network Port | - 1 × RJ45 (Input) |
| IR Interface | - RX: 1 × 3.5mm IR IN |
| USB | - Micro USB (Firmware Upgrade) |

Audio

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|---------------|-----------------------|
| Audio Support | - LPCM 2.0 |
| Audio Format | - HDMI embedded audio |

Power

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|-------------------|-------------|
| Power supply | - DC 5V/1A |
| Power Consumption | - RX ≤ 2.5W |

Compatibility

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|-----------------------|--|
| Supported Resolutions | - 4096×2160@24/25/30/50/60Hz - 3840×2160@24/25/30/50/60Hz - 1920×1080, 1280×720, 1366×768, 1600×900, 1280×1024 |
| Network Cable | - CAT6 |
| Connection Modes | - One-to-One - One-to-Many (via Gigabit Switch) |

General

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|--------------------------------|--|
| Physical Dimension (W x D x H) | - 96.8 × 94 × 23.7 mm (transmitter & receiver) |
| Weight | - 154g (receiver) |
| Housing | - Aluminium |
| Operating Temperature | - 20°C ~ 60°C |
| Storage Temperature | - 30°C ~ 70°C |

Safety

| | |
|----------------|---|
| ESD Protection | - Contact ±4KV, Air ±8KV (IEC61000-4-2) |
|----------------|---|