

# 4K HDMI HDBaseT EXTENDER 100M

## HE1204K

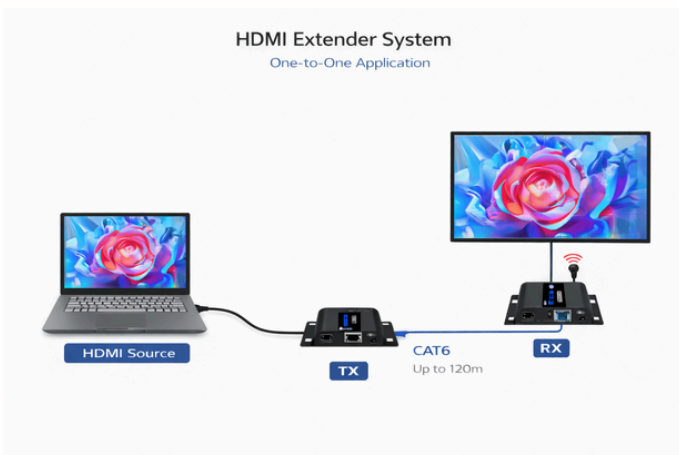


### FEATURES

This 4K@60Hz HDMI Extender is designed to transmit high-definition HDMI signals over long distances using standard CAT5e/6 network cables. It supports HDMI 2.0 and HDCP 1.4/2.2 standards, delivering video resolution up to 4K@60Hz with a bandwidth of up to 18Gbps for clear and stable image quality. The extender can transmit signals up to 120 meters via CAT6 cable, supporting both one-to-one and one-to-many configurations through a standard Gigabit network switch, making it highly scalable for large distribution systems. It features bi-directional IR pass-through (20kHz-60kHz), allowing remote control of source devices from the display side. The system adopts a plug-and-play design with no driver required, firmware upgrade via Micro USB, and built-in protection against ESD, surge, and lightning.

- Supports HDMI 2.0 standard with HDCP 1.4 / HDCP 2.2 compliance
- Delivers high-quality video resolution up to 4K@60Hz (4:4:4)
- Provides high bandwidth up to 18Gbps for smooth and stable signal transmission
- Extends HDMI signal up to 120 meters over CAT5e/CAT6 cable
- Supports one-to-one and one-to-many configurations via standard Gigabit network switch
- Enables flexible and scalable system expansion by adding multiple receivers (RX)
- Supports bi-directional IR pass-through (20kHz-60kHz) for remote control functionality
- Maintains low latency transmission for real-time video performance
- Features plug-and-play design, no software or driver installation required
- Supports firmware upgrade via Micro USB for easy maintenance and updates
- Built-in ESD protection, surge protection, and lightning protection for enhanced durability

### APPLICATION EXAMPLE



### SPECIFICATION

SPECIFICATION	
<b>Technical</b>	
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
<b>Connection</b>	
HDMI Input (TX)	- 1 × HDMI
HDMI Output (RX)	- 1 × HDMI
Network Port	- 1 × RJ45 (TX) - 1 × RJ45 (RX)
IR Interface	- TX: 1 × 3.5mm IR OUT - RX: 1 × 3.5mm IR IN
<b>Audio</b>	
Audio Support	- LPCM 2.0
Audio Format	- HDMI embedded audio
<b>Power</b>	
Power supply	- DC 5V/1A
Power Consumption	- TX ≤ 3.5W - RX ≤ 2.5W
<b>Compatibility</b>	
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)
<b>General</b>	
Physical Dimension (W × D × H)	- 96.8 × 94 × 23.7 mm (transmitter & receiver)
Weight	- 156g (transmitter) - 154g (receiver)
Housing	- Aluminium
Operating Temperature	- 20°C ~ 60°C
Storage Temperature	- 30°C ~ 70°C
<b>Safety</b>	
ESD Protection	- Contact ±4KV, Air ±8KV (IEC61000-4-2)