

HDMI HDBaseT over Ethernet Extender Kit

HDMI Signal Extender — 4K up to 40 m (130 ft.) / 1080p up to 70 m (230 ft.) — Using Single Cat6 Cable, Power over Cable, IR/RS232 Support

Part No.: 207638

Easily extend an ultra-high-definition signal via single Ethernet cable.
The Manhattan HDMI HDBaseT over Ethernet Extender Kit is the ideal solution for connecting virtually any digital HDMI source (Playstation, Xbox, Blu-ray player, satellite receiver, digital recorder, etc.) to an HD display or projector up to 70 m (230 ft.) away — UHD up to 40 m (130 ft.) — via a single Cat6 Ethernet cable. These powered HDMI HDBaseT over Ethernet Extender Kits provide reliable 1080p or 4K resolution video and multichannel audio transmission over longer distances than HDMI cables alone. Plus, the transmitter and receiver modules have additional 3.5 mm ports for bi-directional Infrared (IR), allowing for the control of the devices at either location.

Flexible Solution for Many A/V Applications
Ideal for trade shows, classrooms, home theater, conference rooms, business office and retail applications, the Manhattan HDMI HDBaseT over Ethernet Extender Kit is a cost effective solution that boosts and extends an HDMI signal to where it's needed. Cat6 Ethernet cabling — UTP, SSTP or SFTP (cables not included) — is less expensive and easier to install than HDMI cabling and in-line signal repeaters. When used with our HDMI HDBaseT over Ethernet Extender Kit, these cables deliver a clear, sharp and vivid picture over longer distances.

Quality Construction and Easy Installation
HDCP compliant with HDMI, this Manhattan HDMI HDBaseT over Ethernet Extender Kit is tested to guarantee performance and reliability. It installs quickly without having to run software or install additional hardware. It comes with a power adapter, which powers the receiver or transmitter over Ethernet from the unit using the power adapter, which frees up a power plug for more important applications.

Features:

- Extends an HDMI signal using HDBaseT up to 70 m (230 ft.) from an HDMI source to an HD monitor or projector using one Ethernet cable
- Supports uncompressed 4K@30Hz resolution at 40 m (130 ft.) or 1080p at 70 m (230 ft.) and 10.2 Gbps data throughput
- Supports video amplifier bandwidth up to 340 MHz and 3.4 Gbps per channel (10.2 Gbps total) for 4K displays

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- Supports lossless LPCM 8 channel uncompressed audio formatting, 7.1/5.1 surround sound
- Offers wideband, bi-directional IR transmit (Tx) and receive (Rx) cables that allow for convenient remote control of UHD signal source or display
- Provides RS232/serial port to connect a control processor that can carry out commands ranging from simple to complex (such as turn on a device, change display resolution, control room lighting, etc.)
- Supports Power over Cable (PoC), power Rx unit with powered Tx unit, and vice versa
- HDCP compliant
- Fully HDCP compliant to protect high-definition content transmission and ensure quality reception
- Plug and play
- Plug and play — requires no installation or configuration
- Compatible with Playstation and Xbox game systems, Blu-ray players, set-top boxes, satellite receivers and more
- Gold-plated contacts
- Gold-plated contacts for corrosion free connections
- For additional distance capabilities, use 15 m HDMI cables on both transmitter and receiver
- Three-Year Warranty

Specifications:

Standards and Certifications
• HDCP 2.2
• DVI 1.0
• CTS 1.2
• CE
• FCC
• RoHS2

General
• Cat6 cable: 4K at 40 m (130 ft.)
• Cat6 cable: 1080p at 70 m (230 ft.)
• Cat6 cable: 720p at 100 m (330 ft.)
• Cat6 cable: 480p at 100 m (330 ft.)
• Cat5e cable: 4K at 20 m (70 ft.)
• Cat5e cable: 1080p at 40 m (130 ft.)
• Cat5e cable: 720p at 70 m (230 ft.)
• Cat5e cable: 480p at 100 m (330 ft.)
• Power: 24 VDC / 1 A; cable, 1.4 m (4.5 ft.)
• LED indicator (on: active connection; flashing: poor connection/HDCP inactive; off: no connection)
• Baud rates up to 115 Kbps

Connections

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- One HDMI female (transmitter/receiver)
- One RJ45 female (transmitter/receiver)
- One 5 VDC power female (transmitter/receiver)
- Two 3.5 mm IR female (transmitter/receiver)
- One 3-pin, Phoenix, female for RS232/Serial control (transmitter/receiver)

Signal Input/Output
- Input video signal: 0.5 – 1.0 V p-p
- Input DDC signal: 5 V p-p (TTL)
- Maximum single-link range: 3840 x 2160p at 30 Hz, 4096 x 2160p at 24 Hz and 4K
- Output video: HDCP 2.2, DVI 1.0
- Frequency: 3.40 Gbps / 340 MHz

Video Resolutions
- Standard-definition TV, High-Definition TV, Ultra-High-Definition TV
- SDTV/HDTV/UHDTV: 480i/576i/480p/576p/720p/1080i/1080p/4K

Physical
- Dimensions: 115 x 65 x 17 mm (4.5 x 2.6 x 0.7 in.)
- Weight: 0.6 kg (1.3 lbs.)
- Housing: metal

Operating Environment
- Operation Temperature: 32 – 104°F (0 – 40°C)
- Storage Temperature: -4 – 140°F (-20 – 60°C)
- Humidity (noncondensing): 20 – 96%

Package Contents
- HDMI HDBaseT over Ethernet Extender Kit (receiver & transmitter modules)
- Power adapter (one unit)
- IR blaster and receiver (two units each)
- Phoenix Block (one unit each)
- Wall mounting hardware (two units each)
- Quick Instruction Guide





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