Gefen
TOOLBOX

HDBaseT Extender for HDMI
with Bi-Directional IR (IN/OUT) and POL

GTB-HDBT-POL-BLK

HDBaseT® Extender for HDMI using one CAT-5e or CAT-6 cable up to 230 feet (70 meters)

The GefenToolBox Extender for HDMI with POL extends HDMI up to 230 feet (70 meters) using one CAT-6 cable or up to 198 feet (60 meters) using one CAT-5e cable. Resolutions up to 1080p Full HD with multichannel digital audio are supported. This product provides Bi-Directional IR extension between the Sender and the Receiver unit, allowing the transfer of IR commands from one remote location to the other. Bi-Directional IR can be used to control A/V sources placed near the Sender unit and to send IR automation commands to devices placed near the Receiver unit. Gefen POL (Power Over Line) technology powers the Receiver unit using the same CAT-5e or CAT-6 cable that extends the HDMI signal from the Sender unit. This feature eliminates the need for an external power supply at the Receiver unit which helps to simplify installation.

How It Works

Connect the Sender unit to the Hi-Def source using an HDMI cable. Use another HDMI cable to connect the Receiver unit to the HDTV display. Connect a single CAT-6 cable up to 230 feet (70 meters) or CAT-5e cable up to 198 feet (60 meters) between the Sender and Receiver units. Connect the included 24V DC power supply in to the Sender unit and plug the power supply to an available electrical outlet. Power to the Receiver unit is delivered from the Sender unit over the CAT-5e/6 cable using Gefen POL technology. To control the Hi-Def source from the display location, connect an IR Extender (Gefen part no. EXT-RMT-EXTIRC) to the Ext IR connector on the Receiver unit. Connect an IR emitter (Gefen part no. GTB-IREMIT) to the IR Out of the Sender unit and place the IR emitter over the IR sensor of the Hi-Def source. Point the IR remote at the IR Extender to control the Hi-Def source. For IR control of a device placed near the Receiver unit (such as the display), connect the IR output from an automation device (such as the Gefen PACS or Mini PACS) to the IR In connector on the Sender unit. Connect an IR emitter (Gefen part no. GTB-IREMIT) to the IR Out on the Receiver unit and attach the IR emitter to the IR sensor of the device being controlled.

Note: This product is Ultra HD 4K x 2K compliant. 4K x 2K resolutions can be extended up to 130 feet (40 meters) over a CAT-5e cable.

Shielded (STP) CAT-5e or CAT-6 is recommended. Unshielded (UTP)CAT-5e or CAT-6 may be acceptable depending on cable quality but is not the top choice. Care should always be given to keep these cables away from lines and other electromagnetic interference sources.

POL (Power Over Line) technology from Gefen sends power to the Receiver unit over the same CAT-5e/6 cable that is used for extending the HDMI signal. HDBaseT® technology allows HDMI, IR (Bi-directional), and power to be sent on one CAT-5 cable.

Features*

- Extends HDMI and 3DTV up to 230 feet (70 meters) over a single CAT-6 or up to 198 feet (60 meters) over a single CAT-5e
- HDMI Features Supported:
    - Ultra 4K x 2K (3840 x 2160 @ 30 Hz)
    - Resolutions up to 1080p Full HD
    - HDCP-compliant
    - 12-bit Deep Color
    - LPCM 7.1 audio, Dolby® TrueHD, Dolby Digital® Plus, and DTS-HD® Master Audio™
    - 3DTV pass-through
    - CEC pass-through
    - Lip Sync pass-through
- Bi-Directional IR remote control of devices
- Gefen POL feature provides power to the Receiver unit over the CAT-5e
- Uses HDBaseT® technology
- HDCP-compliant
- Locking power connector
- Easy surface mounting
- Available in Black and White finishes

Specifications*

- Maximum Pixel Clock: 225 MHz
- Video Input Connector (Sender): (1) HDMI Type A 19-pin, female, locking
- Video Output Connector (Receiver): (1) HDMI Type A 19-pin, female, locking
- Link Connectors (Sender/Receiver): (1) RJ-45, shielded
- Power/HDCP Indicator LED: Bi-color: Blue/Amber
- IR Extender port (Receiver): 3.5mm mini-stereo jack
- IR Out port (Sender / Receiver): 3.5mm mini-mono jack
- IR In port (Sender): 3.5mm mini-mono jack
- Power Supply: (1) 24V DC, locking
- Power Consumption: 24W (max.)
- Dimensions (W x H x D) (Sender / Receiver): 4.3" x 1" x 3.2" (110mm x 26mm x 80mm)
- Shipping Weight: 4 lbs. (1.8 kg)

3D SUPPORT   HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE   1080P PROGRESSIVE

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