

# GTB-UHD-HBT



## EXTEND HDMI, RS-232, AND 2-WAY IR OVER ONE CAT-5e CABLE, UP TO 495 FEET (150 METERS)

The GTB-UHD-HBT 4K Ultra HD Extender uses Gefen's implementation of the HDBaseT™ technology to extend HDMI up to 495 feet/150 meters at 1080p (8 bits) and up to 330 feet/100 meters at 4K, using one CAT-5e or better cable. Resolutions up to 4K Ultra HD (3840 x 2160 @ 60 Hz 4:2:0) with 7.1 channels of HBR (High Bit Rate) lossless digital audio are

supported. This product provides RS-232 and 2-way IR extension between the Sender and the Receiver units, facilitating the control of A/V sources placed near the Sender unit and sending automation commands to the display or another device placed near the Receiver unit. Gefen Bi-Directional POL (Power Over Line) technology powers the Sender or the Receiver unit using the same cable that extends the HDMI signal. Only one of the two units will need a power supply. This feature simplifies installation in cases when an electrical outlet may not be available near the source or the display. Small, low profile enclosures can be securely surface-mounted and conveniently hidden away from sight.

### Notes:

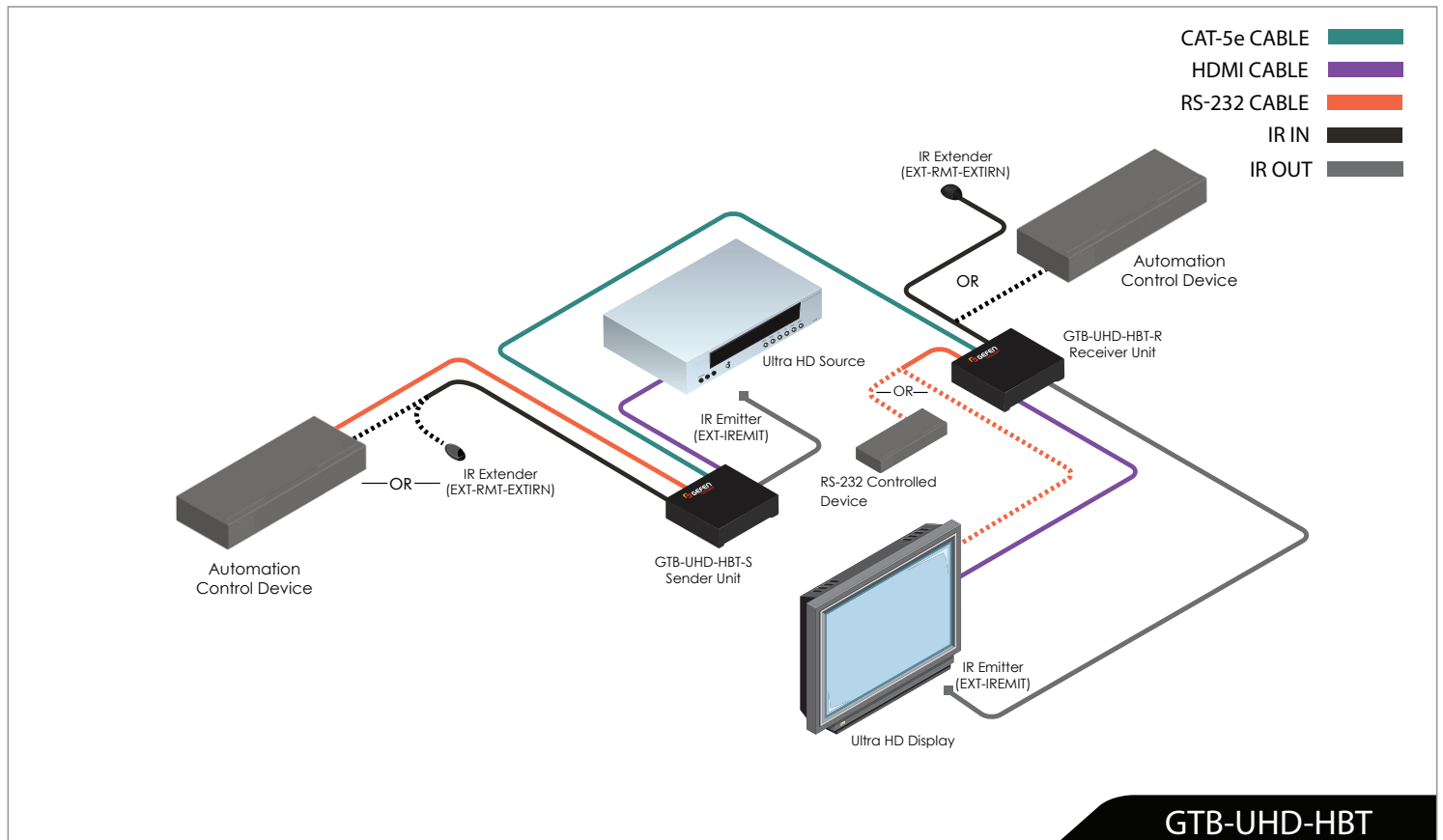
1. Shielded (STP) CAT-5e or CAT-6A is recommended. Unshielded (UTP) CAT-5e or CAT-6A may be acceptable depending on cable quality but is not the preferred choice. Care should always be given to keep these cables away from power lines and other sources of electromagnetic interference.
2. This product supports sources up to 4K 300 MHz (60 Hz 4:2:0 or 30 Hz 4:4:4). It is not compatible with sources that are capable of HDR or 4K 600 MHz (60 Hz 4:4:4).

## FEATURES\*

- **Extends HDMI, RS-232, & Bi-Directional IR over a single CAT-5e/CAT-6A:**
  - 4K Ultra HD (3840 x 2160 @ 60 Hz, 4:2:0), up to 330 feet/100 meters (8-bit color)
  - 4K Ultra HD (3840 x 2160 @ 30 Hz, 4:4:4), up to 330 feet/100 meters (8-bit color)
  - 4K Cinema (DCI) (4096 x 2160 @ 24 or 30 Hz 4:4:4), up to 330 feet/100 meters (8-bit color)
  - 1080p Full HD (60 Hz), up to 330 feet/100 meters (up to 12-bit Deep Color)
  - 1080p Full HD (60 Hz), up to 495 feet/150 meters (8-bit color)
- **HDMI Features Supported:**
  - HDMI 2.0
  - HDCP 2.2 and 1.4
  - 12-bit Deep Color
  - LPCM 7.1, Dolby Atmos®, Dolby® TrueHD, DTS:X™, and DTS-HD Master Audio™ pass-through
  - 3DTV pass-through
  - CEC pass-through
  - Lip Sync pass-through
- IR extension from Sender to Receiver and from Receiver to Sender
- Gefen Bi-Directional POL feature provides power to the Sender or the Receiver unit over the link cable - only one side will need external power
- Uses Gefen's implementation of HDBaseT™ technology with enhanced features
- Advanced EDID Management
- Firmware updatable via RS-232
- Locking power connector
- Surface mountable

## SPECIFICATIONS\*

- Maximum Pixel Clock: 300 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 Connector (Sender/Receiver): (1) RJ-45, shielded
- RS-232 port (Sender): (1) 3-pin Phoenix - DB-9 adaptor cable included
- RS-232 port (Receiver): (1) 3-pin Phoenix - DB-9 adaptor cable included
- IR Ext/In port (Sender/Receiver): (1) 3.5mm mini-stereo jack
- IR Extender type: EXT-RMT-EXTIRN
- IR Out port (Sender/Receiver): (1) 3.5mm mini-mono jack
- Power/Link Indicator LED (Sender/Receiver): (1) Bi-color: Blue/Green
- Power Supply: (1) 24V DC, locking
- Power Consumption (Sender and Receiver combined): 12W maximum
- Operating Temperature: +32 to +122 °F (0 to +50 °C)
- Operating Humidity: 5% to 90% RH, non-condensing
- Storage Temperature: -4 to +185 °F (-20 to +85 °C)
- Storage Humidity: 0% to 95% RH, non-condensing
- MTBF: 50000 hours
- Dimensions (W x H x D, Sender/Receiver): 4.3" x 1" x 3.2" (110mm x 26mm x 85mm)
- Net Weight (Sender/Receiver): 0.4 lbs. (0.2 kg) each
- Shipping Weight: 2.6 lbs. (1.2 kg)



\* Features and specifications are subject to change without notice.