

## HDBaseT Class B (HDBaseT-Lite) HDMI over Cat5e/6/6a Extender Transceiver, Serial and IR, 4K x 2K 30 Hz UHD / 1080p 60 Hz, Up to 230 ft. (70 m), TAA

MODEL NUMBER: BHDBT-TR-SI



Transmits uncompressed HDMI video and audio, RS-232 serial and IR remote control signals over a single Cat5e/6/6a cable up to 230 ft. to projectors, monitors or televisions in a chain.

### Description

Insert the BHDBT-TR-SI HDBaseT Class B (HDBaseT-Lite) HDMI over Cat5e/6/6a Extender Transceiver between the transmitter and receiver units in your Tripp Lite HDBaseT Class B installation to extend the range of your signal. Connect its HDMI port to a projector, monitor or television to expand your installation. Using a single Cat5e/6/6a cable, the BHDBT-TR-SI transmits uncompressed HDMI audio and video, RS-232 serial and IR control signals up to 230-ft. (70.1 m) from the previous unit in the chain (either the transmitter or another transceiver), including a 1920 x 1080 (1080p) signal @ 60 Hz. It can also extend an Ultra High Definition (UHD) 4096 x 2160 or 3840 x 2160 (4K x 2K) video signal up to 130-ft. (39.62 m) from the previous unit in the chain. Add up to five BHDBT-TR-SI Extender Transceivers to the chain for a total range up to 780-ft. (237.74 m) (4K x 2K) or 1,380-ft. (420.62 m) (1080p) with a monitor connected to each transceiver.

RS-232 serial signals and IR remote control signals (@ 39 KHz) also pass through the transceiver, so your HDBaseT installation can control such RS-232 devices as scanners and touchscreen displays at baud rates up to 115 Kbps. You can also operate a Blu-ray player using its remote when at the remote monitor and vice versa. Locking HDMI ports (ideal for use with Tripp Lite's P569-006-LOCK High-Speed HDMI cables with locking connectors) prevent cables from coming loose or undone, ensuring an intact signal. Attach the BHDBT-TR-SI to a wall, rack or pole using the included hardware.

### Features

#### Extends and Expands Your HDBaseT Class B (HDBaseT-Lite) Installation

- Extends an Ultra High Definition (UHD) 4096 x 2160 or 3840 x 2160 (4K x 2K) @ 30 Hz signal up to 130-ft. (39.26 m)
- Extends a High Definition 1920 x 1080 (1080p) @ 60 Hz signal up to 230-ft. (70.1 m)
- Connects to next link in the chain with just one Cat5e/6/6a cable
- Add up to 5 transceivers to further expand the range of your installation up to 780-ft. (237.74 m) (4K x 2K) or 1,380-ft. (420.62 m) (1080p) with a monitor attached to each transceiver
- Supports 7.1-channel surround sound, DTS-HD and Dolby TrueHD audio

### Highlights

- Extends and expands your Tripp Lite HDBaseT Class B installation
- Connects multiple monitors at different links in a chain
- Extends both a 4096 x 2160 and 3840 x 2160 (4K x 2K) @ 30 Hz signal up to 130-ft. (39.62 m)
- Extends a 1080p @ 60 Hz signal up to 230-ft. (70.1 m)
- Supports 7.1-channel surround sound, DTS-HD and Dolby TrueHD

### Package Includes

- BHDBT-TR-SI HDBaseT Class B HDMI over Cat5e/6/6a Extender Transceiver
- External Power Supply with NEMA 1-15P Plug (Input: 100–240V, 50/60 Hz, 0.5A; Output: 5V, 3A)
- Mounting hardware
- Owner's Manual

- Supports 36-bit Deep Color (12 bits per channel), CEC passthrough, 3D video, EDID and HDCP

#### Allows RS-232 and IR Control Passthrough

- Passes through RS-232 serial signals at 115 Kbps full-duplex baud rates for devices such as scanners and touchscreen monitors
- Passes through IR remote control signals so you can operate your Blu-ray player with its remote while standing at the remote monitor (and vice versa)

#### Easy to Set Up and Use

- Plug-and-play engineering—no software or drivers to download and install
- Inserts quickly between transmitter and receiver in Tripp Lite HDBaseT Class B installation
- Included mounting hardware lets you install each unit on a wall, rack or pole
- Locking HDMI ports (ideal for use with Tripp Lite's P569-006-LOCK HDMI cables) prevent cables from coming loose or disconnected, ensuring an intact signal

#### TAA-Compliant

- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

## Specifications

| OVERVIEW                             |                                  |
|--------------------------------------|----------------------------------|
| UPC Code                             | 037332187062                     |
| Product Type                         | Transceiver                      |
| Technology                           | HDBaseT; HDMI; IR; Cat5/5e; Cat6 |
| VIDEO                                |                                  |
| Max Supported Video Resolution       | 3840 x 2160 (4K @ 30Hz)          |
| Max 720P Range (ft)                  | 230                              |
| Max 1080P Range (ft)                 | 230                              |
| Max 1280 x 720 (720p) Range (ft)     | 230                              |
| Max 1920 x 1080 (1080p) Range (ft)   | 230                              |
| Max 1920 x 1200 Range (ft)           | 230                              |
| Max 2560 x 1600 Range (ft)           | 130                              |
| Max 3840 x 2160 (4K@30Hz) Range (ft) | 130                              |
| Receiver/Transceiver Video Output    | HDMI                             |
| Receiver - Number of Video Outputs   | 1                                |
| Recommended Cabling                  | HDMI                             |
| Max Supported Color Depth            | 36-bit Deep Color                |
| HDR Support                          | No                               |

|  |   |
|--|---|
| 3D Video Supported                           | Yes   |
| Maximum Signal Range (ft)                    | 230   |
| Maximum Signal Range (m)                     | 70  |
| <b>AUDIO</b>                                 |   |
| Audio Input                                  | HDMI  |
| Audio Output                                 | HDMI  |
| Audio Specification                          | 7.1 Channel Surround Sound, DTS-HD and Dolby TrueHD   |
| <b>INPUT</b>                                 |   |
| AC Power Adapter Plug(s)                     | NEMA 1-15P North America  |
| AC Power Adapter Input Specs (V / Hz / A)    | 100-240V / 50/60Hz / 0.5A   |
| AC Power Adapter Output Specs (V / A)        | 5V / 3A   |
| AC Power Adapter Cord Length (ft.)           | 4.5   |
| AC Power Adapter Cord Length (m)             | 1.4   |
| Bus Powered                                  | No  |
| <b>POWER</b>                                 |   |
| Power Source Type                            | AC Adapter  |
| AC Plug Type                                 | NEMA 1-15P  |
| Power Source                                 | Unit (Included)   |
| Power Over Cable (PoC) Support               | No  |
| AC Adapter                                   | Input: 100-240V, 50/60Hz, 0.5A; Output: 5V, 3A  |
| DC Barrel Plug                               | OD: 5.5 x 2.1 x 7.5mm, Positive Pin, Negative Sleeve  |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |   |
| LED Indicators                               | GREEN UNIT LED INDICATES POWER / GREEN RJ45 LED's INDICATE HDCP IS WORKING / ORANGE UNIT LED'S INDICATE HDMI OUTPUT CONNECTION, RJ45 OUTPUT CONNECTION, AND RJ45 INPUT CONNECTION / ORANGE RJ45 LED'S INDICATE HDBASET LINK |
| <b>PHYSICAL</b>                              |   |
| Color  | Black   |
| Included Mounting Accessories                | Wallmount   |
| Number of Displays                           | 1   |
| Optional Mounting Accessory Notes            | Can DIN Mount using Tripp Lite Bracket <a href="http://triplite.eaton.com/din-rail-mounting-bracket-for-digital-signage-version-2-B110-DIN-02">B110-DIN-02</a>  |
| Form Factor/Mounting Options                 | Box; Wall-mount   |
| Receiver Unit Dimensions (hwd / in.)         | 1.2 x 5 x 4   |

|  |                             |
|--|-----------------------------|
| Receiver Unit Weight (lbs.)                  | 1                           |
| Shipping Dimensions (hwd / in.)              | 2.20 x 8.40 x 6.50          |
| Shipping Dimensions (hwd / cm)               | 5.59 x 21.34 x 16.51        |
| Shipping Weight (lbs.)                       | 1.34                        |
| Shipping Weight (kg)                         | 0.61                        |
| Unit Dimensions (hwd / in.)                  | 1.200 x 5.000 x 4.000       |
| Unit Packaging Type                          | Box                         |
| Unit Weight (lbs.)                           | 1                           |
| Unit Weight (kg)                             | 0.45                        |
| Unit Weight Details                          | 1lb.                        |
| Housing                                      | Metal                       |
| <b>ENVIRONMENTAL</b>                         |                             |
| Operating Temperature Range                  | 32° to 104°F (0° to 40°C)   |
| Storage Temperature Range                    | -4° to 140°F (-20° to 60°C) |
| Relative Humidity                            | 20 to 90%                   |
| Operating Humidity Range                     | 20 to 90%                   |
| Storage Humidity Range                       | 20 to 90%                   |
| <b>COMMUNICATIONS</b>                        |                             |
| Max 1024 x 768 Range (ft)                    | 230                         |
| Max 480P Range (ft)                          | 230                         |
| Max 1440 x 900 Range (ft)                    | 230                         |
| Max 1080i Range (ft)                         | 230                         |
| Max 1920 x 1440 Range (ft)                   | 130                         |
| Max 4K UHD Range (ft)                        | 130                         |
| Max 480i Range (ft)                          | 230                         |
| Max 640 x 480 Range (ft)                     | 230                         |
| Max 800 x 600 Range (ft)                     | 230                         |
| Max 1600 x 1200 Range (ft)                   | 230                         |
| Max 2048 x 1536 Range (ft)                   | 130                         |
| EDID Compatible                              | Yes                         |
| IR Remote Extension Support                  | Yes                         |
| RS-232 Serial Extension Support              | Yes                         |
| Consumer Electronics Control (CEC) Supported | Yes                         |

|                                      |  |
|--------------------------------------|--|
| USB Extension Support                | No   |
| <b>CONNECTIONS</b>                   |  |
| Number of Ports                      | 0  |
| Side A - Connector 1                 | HDMI (FEMALE)                                      |
| Side B - Connector 1                 | (2) RJ45 (FEMALE)                                  |
| Daisy-chainable / Cascadable         | No   |
| <b>FEATURES &amp; SPECIFICATIONS</b> |  |
| 10/100 Ethernet Extension Support    | No   |
| Built-In Equalizer                   | No   |
| HDCP Specification                   | 1.4  |
| Driver Required                      | No   |
| <b>STANDARDS &amp; COMPLIANCE</b>    |  |
| External Power Supply Certifications | UL; cUL; RoHS; FCC                                 |
| Product Compliance                   | RoHS; REACH; FCC (USA); Trade Agreements Act (TAA) |
| <b>WARRANTY &amp; SUPPORT</b>        |  |
| Product Warranty Period (Worldwide)  | 1-year limited warranty                            |