

# HDMI over Cat6 Extender Kit, Transmitter and Receiver with Repeater, 4K 60Hz, 4:4:4, IR, HDR, PoC, 230 ft., TAA

MODEL NUMBER: **B127A-111-BHTH**



HDMI extender kit with transmitter and transceiver extends a 4K signal via Cat6 cable to an HDMI display up to 230 ft. away.

## Features

### HDMI Extender Kit Ideal for Digital Signage in Schools, Restaurants and Lecture Halls

This complete transmitter and transceiver system is recommended for video presentations in conference rooms, schools, trade shows, meeting facilities, houses of worship, retail settings, hotels and other digital signage applications where the source and display are farther apart than conventional A/V cables allow. The B127A-111-BHTH extends 4K signals from an HDMI source device to an HDMI display up to 230 feet away via user-supplied Cat6 cabling. IR remote control lets you operate the source from the display end of the installation.

### Transmits Crystal-Clear 4K Video with Multi-Channel Audio, HDR and 4:4:4 Color

The B127A-111-BHTH supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz, as specified by HDMI 2.0, with full, rich uncompressed DTS-HD, Dolby TrueHD and 7.1-channel digital audio. High Dynamic Range (HDR) provides a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.2 compliance allows you to stream 4K Amazon and Netflix content with no complications. This extender kit also supports 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor. Built-in equalization allows you to fine-tune the image quality at the remote display.

### Local HDMI Port on Transmitter Supports 4K @ 60 Hz Resolution

To monitor the video signal being extended to the transceiver, connect a 4K display to the transmitter's local HDMI port with a user-supplied HDMI cable. This port does not support multi-resolution capabilities, so the connected monitor must also support 4K/60 Hz to function properly.

### Built-In PoC Technology Provides Transceiver Power to Avoid Bulky External Power Bricks

Power over Cable (PoC) technology powers the transceiver over Cat6 cable. LEDs on both the transmitter and transceiver will light up to indicate the system is receiving power and a signal is being transmitted. PoC lets you avoid the hassle of a bulky power brick and gives you the freedom to place the transceiver where needed without worrying about finding a nearby AC outlet.

### Create a Daisy Chain to Achieve Even More Distance

This extender kit is capable of forming daisy-chain installations up to 920 feet from the transmitter by connecting additional B127A-110-BH transceivers (sold separately). Up to four total B127A-110-BH transceivers can be chained together, each capable of extending a 4K/60 Hz signal up to 230 feet per

## Highlights

- Supports UHD resolutions up to 4K @ 60 Hz (4:4:4) for crystal-clear video
- Carries High Dynamic Range (HDR) signals for rich contrast and expanded color accuracy
- Power over Cable (PoC) technology provides power to the transceiver via Cat6 cable
- Transmitter's local port shows you the 4K image being displayed at the other end
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

## Applications

- Connect a laptop for a video or PowerPoint presentation in an auditorium or lecture hall, where the source device changes frequently
- Extend video signals from one room to another using Cat6 cable, which can pass through conduit to meet building codes
- Gain flexibility in where the transceiver is placed, with the freedom to move and relocate it away from an AC outlet
- Improve the line of sight for digital signage in a hotel, restaurant, theater, house of worship, trade show or other location

## System Requirements

- Source device with HDMI output (Blu-ray player, cable box, laptop)
- Display device with HDMI input (HDTV, projector, monitor)

## Package Includes

- Transmitter
- Transceiver
- External power supply (Input: 100-240V, 50/60 Hz, 0.6A; Output: 24V 1A)
- (4) International plug adapters (North America, Europe, U.K. and Australia)
- IR-In cable
- IR-Out cable
- Mounting hardware



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unit. The transceiver is also compatible with B127A-010-H signal booster (sold separately), which allows the signal to be boosted up to 400 feet total between the transmitter and transceiver. When used in a daisy-chain installation, this brings the total extension distance up to 1,090 ft. **Note:** B127A-010-H will only work when used in the first link of the daisy-chain installation.

- Owner's manual

#### Plug-and-Play Operation for Quick Setup and Immediate Use

The included transmitter and transceiver units work right out of the box with no software required. Mounting hardware is included for installing the transmitter on a wall, pole or 19-inch rack. Connect the transmitter to the source with a user-supplied HDMI cable (such as P568- or P569-Series). Then, connect the transceiver to the display with another user-supplied HDMI cable. Finally, connect the two units with user-supplied Cat6 patch cable (such as N202-Series cable).

#### TAA-Compliant for GSA Schedule Purchases

The B127A-111-BH1H is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

## Specifications

| OVERVIEW                              |                                                    |
|---------------------------------------|----------------------------------------------------|
| UPC Code                              | 037332258618                                       |
| Product Type                          | Extender Kit                                       |
| Technology                            | HDMI; Cat5/5e; Cat6; POC; IR                       |
| Host Connector                        | HDMI (FEMALE)                                      |
| VIDEO                                 |                                                    |
| Video Input                           | HDMI (FEMALE)                                      |
| Video Output                          | HDMI (FEMALE)                                      |
| Video Ports                           | HDMI (FEMALE)                                      |
| Video Ports Details                   | HDMI 2.0; HDCP 1.4; HDCP 2.2                       |
| Supported Resolutions                 | 1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K) |
| Max Supported Video Resolution        | 3840 x 2160 (4K @ 60Hz)                            |
| Max. Distance (Between any 2 Units)   | 230 ft.                                            |
| 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)            | 230                                                |
| Max 3840 x 2160 (4K@30Hz) Range (ft)  | 230                                                |
| Max 3840 x 2160 (4K@60Hz) Range (ft)  | 230                                                |
| Transmitter Video Input               | HDMI                                               |
| Transmitter - Number of Video Outputs | 1                                                  |



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|                                                |                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------|
| Transmitter - Local Display Output             | HDMI                                                                         |
| Receiver/Transceiver Video Output              | HDMI                                                                         |
| Receiver - Number of Video Outputs             | 1                                                                            |
| Signal Range (ft)                              | 230                                                                          |
| Signal Range (m)                               | 70                                                                           |
| Range Extension using other Tripp Lite product | 230 ft.                                                                      |
| Recommended Cabling                            | Solid Wire Cat6 Cables (Tripp Lite's N202-Series)                            |
| Other Tripp Lite product used to extend range  | B127A-110-BH                                                                 |
| Max Supported Color Depth                      | 36-bit Deep Color                                                            |
| HDR Support                                    | Yes                                                                          |
| 3D Video Supported                             | Yes                                                                          |
| Chroma Sub Sampling                            | 4:4:4                                                                        |
| Maximum Signal Range (ft)                      | 230                                                                          |
| Maximum Signal Range (m)                       | 70                                                                           |
| <b>AUDIO</b>                                   |                                                                              |
| Audio Input                                    | HDMI                                                                         |
| Audio Output                                   | Toslink; HDMI                                                                |
| Audio Specification                            | Pass-through audio (LPCM 2.0/5.1/7.1)                                        |
| <b>INPUT</b>                                   |                                                                              |
| AC Power Adapter Plug(s)                       | AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America |
| AC Power Adapter Input Specs (V / Hz / A)      | 100-240V / 50/60Hz / 0.6A                                                    |
| AC Power Adapter Output Specs (V / A)          | 24V / 1A                                                                     |
| AC Power Adapter Cord Length (ft.)             | 4.5                                                                          |
| AC Power Adapter Cord Length (m)               | 1.38                                                                         |
| Voltage Compatibility (VAC)                    | 100; 110; 120; 125; 127; 200; 208; 220; 230; 240                             |
| Bus Powered                                    | No                                                                           |
| <b>POWER</b>                                   |                                                                              |
| Power Source Type                              | AC Adapter                                                                   |
| AC Plug Type                                   | NEMA 1-15P; BS1363; CEE 7/16 Schuko; AS/NZS 3112                             |
| Power Source                                   | Transmitter or Receiver (Included)                                           |
| Power Over Cable (PoC) Support                 | Yes                                                                          |
| <b>CONNECTIONS</b>                             |                                                                              |



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|                                              |                                                                                                                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Side A - Connector 1                         | (2) HDMI (FEMALE)                                                                                                                          |
| Side A - Connector 2                         | RJ45 (FEMALE)                                                                                                                              |
| Side A - Connector 3                         | (2) 3.5MM (FEMALE)                                                                                                                         |
| Side B - Connector 1                         | (2) RJ45 (FEMALE)                                                                                                                          |
| Side B - Connector 2                         | HDMI (FEMALE)                                                                                                                              |
| Side B - Connector 3                         | (2) 3.5MM (FEMALE)                                                                                                                         |
| Side B - Connector 4                         | TOSLINK (FEMALE)                                                                                                                           |
| Daisy-chainable / Cascadable                 | Yes                                                                                                                                        |
| Daisy-chainable / Cascadable Details         | Up to 4 Units                                                                                                                              |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                            |
| LED Indicators                               | TX: Green (Power), RJ45 Port: Green (Connection), Orange (Activity); TRX: Green (Power), RJ45 Ports: Green (Connection), Orange (Activity) |
| <b>PHYSICAL</b>                              |                                                                                                                                            |
| Color                                        | Black                                                                                                                                      |
| Material of Construction                     | Metal                                                                                                                                      |
| Number of Displays                           | 1                                                                                                                                          |
| Form Factor/Mounting Options                 | Box; Wall-mount                                                                                                                            |
| Rackmountable                                | Yes                                                                                                                                        |
| Receiver Unit Dimensions (hwd / cm.)         | 11.5 x 6.25 x 2.69                                                                                                                         |
| Receiver Unit Weight (kg)                    | 0.453                                                                                                                                      |
| Shipping Dimensions (hwd / in.)              | 2.17 x 10.24 x 6.46                                                                                                                        |
| Shipping Dimensions (hwd / cm)               | 5.51 x 26.01 x 16.41                                                                                                                       |
| Shipping Weight (lbs.)                       | 1.45                                                                                                                                       |
| Shipping Weight (kg)                         | 0.66                                                                                                                                       |
| Transmitter Unit Dimensions (hwd / cm.)      | 11.5 x 6.25 x 2.69                                                                                                                         |
| Transmitter Unit Weight (kg)                 | 0.453                                                                                                                                      |
| Unit Dimensions (hwd / in.)                  | 2.120 x 4.530 x 2.460                                                                                                                      |
| Unit Packaging Type                          | Box                                                                                                                                        |
| Mounting Details                             | Wallmount                                                                                                                                  |
| <b>ENVIRONMENTAL</b>                         |                                                                                                                                            |
| Operating Temperature Range                  | 32° to 104°F (0° to 40°C)                                                                                                                  |
| Storage Temperature Range                    | 5° to 122°F (-15° to 50°C)                                                                                                                 |
| Relative Humidity                            | 0-85% non-condensing                                                                                                                       |



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| COMMUNICATIONS                               |                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------|
| Signal Range (ft.)                           | 230                                                                   |
| Signal Range (m)                             | 70                                                                    |
| Transmission Distance                        | 230 ft.                                                               |
| EDID Compatible                              | Yes                                                                   |
| IR Remote Extension Support                  | Yes                                                                   |
| RS-232 Serial Extension Support              | No                                                                    |
| Consumer Electronics Control (CEC) Supported | Yes                                                                   |
| Latency                                      | 0                                                                     |
| USB Extension Support                        | No                                                                    |
| PORT EXPANSION                               |                                                                       |
| Daisy-chainable or Cascadable                | Yes                                                                   |
| FEATURES & SPECIFICATIONS                    |                                                                       |
| 10/100 Ethernet Extension Support            | No                                                                    |
| Integrated/Removable Cable                   | No                                                                    |
| MST Support                                  | No                                                                    |
| Mounting Accessory Included                  | Yes                                                                   |
| Multi-Resolution Support                     | No                                                                    |
| Built-In Equalizer                           | No                                                                    |
| HDCP Specification                           | 1.4; 2.2                                                              |
| Driver Required                              | No                                                                    |
| Recommended Category Cable                   | Cat6                                                                  |
| DIN Mountable                                | No                                                                    |
| STANDARDS & COMPLIANCE                       |                                                                       |
| External Power Supply Certifications         | CE; FCC; CCC; GS; TUV; UL; cUL                                        |
| Product Compliance                           | RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA); UKCA |
| WARRANTY & SUPPORT                           |                                                                       |
| Product Warranty Period (Worldwide)          | 1-year limited warranty                                               |



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