

## 2-Port HDMI over Cat6 Extender Kit, Transmitter/Receiver - 4K 60 Hz, HDR, 4:4:4, PoC, 230 ft. (70.1 m), TAA

MODEL NUMBER: B127A-2A1-BHBH



HDMI extender kit with transmitter and receiver extends a 4K signal via Cat6 cable to 2 HDMI displays up to 230 ft. away.

### Features

#### Dual-Output Extender Kit Ideal for Digital Signage in Schools, Restaurants and Lecture Halls

This complete transmitter and receiver 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.

#### Extends a 4K A/V Transmission up to 230 ft....or More

The B127A-2A1-BHBH extends 4K signals from an HDMI source device to two HDMI displays up to 230 feet (70.1 meters) away via user-supplied Cat6 cabling. By adding a Tripp Lite B127A-010-H HDMI repeater (sold separately) to the application, you can extend the signal up to 400 feet (121.9 meters).

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

The B127A-2A1-BHBH supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz, as specified by HDMI 2.0, with 7.1-channel surround sound 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.

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

To monitor the video signal being extended to the receiver, 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 Power to Avoid Bulky External Power Bricks

Power over Cable (PoC) technology powers the transmitter or receiver over Cat6 cable. LEDs indicate when 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 unit where needed without worrying about finding a nearby AC outlet.

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

### Highlights

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- Carries High Dynamic Range (HDR) signals for rich contrast and expanded color accuracy
- Power over Cable (PoC) technology provides power to the receiver 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

- 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 units are placed, with the freedom to move and relocate one 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(s) with HDMI input (HDTV, projector, monitor)

### Package Includes

- Transmitter
- Receiver
- 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)
- Mounting hardware
- Owner's manual



The included transmitter and receiver work right out of the package with no software required. Mounting hardware is included for installing both units on a wall, pole or 19-inch rack. Connect the transmitter to the source with a user-supplied HDMI cable (such as Tripp Lite's P568- or P569-Series). Then, connect the receiver to the displays with user-supplied HDMI cables. Finally, connect the two units with user-supplied Cat6 cable (such as Tripp Lite N202-Series).

#### TAA-Compliant for GSA Schedule Purchases

The B127A-2A1-BHBH 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                              | 037332264091                                 |
| Product Type                          | HDMI Extender Kit                            |
| Technology                            | Cat5/5e; Cat6; HDMI; HDR; POC; Toslink/SPDIF |
| VIDEO                                 |  |
| Video Input                           | HDMI (FEMALE)                                |
| Video Output                          | HDMI (FEMALE)                                |
| Video Ports                           | (3) HDMI (FEMALE)                            |
| Video Ports Details                   | HDMI 2.0; HDCP 1.4; HDCP 2.2                 |
| Max Supported Video Resolution        | 3840 x 2160 @ 60 Hz                          |
| 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  |
| Maximum Distance with Booster         | 400  |
| Transmitter Video Input               | HDMI   |
| Transmitter - Number of Video Outputs | 2  |
| Transmitter - Local Display Output    | HDMI   |
| Receiver/Transceiver Video Output     | HDMI   |
| Receiver - Number of Video Outputs    | 2  |
| Signal Range (ft)                     | 230  |
| Signal Range (m)                      | 70   |



|  |  |
|--|--|
| Range Extension with Booster                   | Yes  |
| Range Extension using other Tripp Lite product | 400 ft.  |
| Recommended Cabling                            | 24 AWG Solid Wire Cat6 Cabling (Tripp Lite N202-Series)  |
| Extended Mode                                  | Yes  |
| Extended Mode Details                          | x2 HDMI outputs (4K/60 Hz)First output is extended, the second will always be mirrored   |
| Mirror Mode                                    | Yes  |
| Mirror Mode Details                            | x2 HDMI outputs (4K/60 Hz)First output is extended, the second will always be mirrored   |
| Other Tripp Lite product used to extend range  | B127A-010-H Signal Booster   |
| 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   |
| Maximum Signal Range Details                   | Dual output 4K/60 Hz up to 230 ft. Can reach up to 400 ft. per output with B127A-010-H signal booster used between transmitter and receiver. |
| <b>AUDIO</b>                                   |  |
| Audio Ports                                    | HDMI (FEMALE); TOSLINK (FEMALE)  |
| Audio Ports Details                            | x2 HDMI and x1 TOSLINK Ports support pass-through audio formats including LPCM 2.0/5.1/7.1   |
| Audio Input                                    | HDMI   |
| Audio Output                                   | HDMI; Toslink  |
| Audio Specification                            | Supports pass-through Audio format including LPCM2.0/5.1/7.1; TOSLINK  |
| <b>INPUT</b>                                   |  |
| Voltage Compatibility (VAC)                    | 100; 110; 120; 125; 127; 200; 208; 220; 230; 240   |
| External Power Supply Plug(s)                  | AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America   |
| Bus Powered                                    | No   |
| <b>POWER</b>                                   |  |
| Power Source Type                              | AC Adapter   |
| AC Plug Type                                   | AS/NZS 3112; BS1363; CEE 7/16 Schuko; NEMA 1-15P   |
| Power Source                                   | Transmitter (Included) and Receiver (Included but Optional)  |
| Power Over Cable (PoC) Support                 | Yes  |
| Receiver Power Source                          | AC Adapter (Included); Power Over Cable  |



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|--|--|
| External Power Supply Input Specs (V / Hz / A) | 100-240V / 50/60Hz / 0.6A  |
| External Power Supply Output Specs (V / A)     | 24V / 1A   |
| External Power Supply Cord Length (ft.)        | 4.53   |
| External Power Supply Cord Length (m.)         | 1.38   |
| External Power Supply Certifications           | CCC; CE; GS; TUV; UL; cUL  |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>   |  |
| LED Indicators                                 | Transmitter: (x1) Power = Green (Connected to power supply/PoC from Receiver), (x1) RJ45 Port = Green (Power), Orange (data being sent to receiver); Receiver: (x1) Power = Green (Connected to power supply/PoC from Transmitter), (x1) RJ45 Port = Green (Power), Orange (Data being sent to receiver) |
| <b>PHYSICAL</b>                                |  |
| Color  | Black  |
| Included Mounting Accessories                  | (2) Mounting Brackets  |
| Material of Construction                       | Metal  |
| Number of Displays                             | 2  |
| Form Factor/Mounting Options                   | Box; Rackmount; Wall-mount   |
| Rackmountable                                  | Yes  |
| Receiver Unit Dimensions (hwd / cm.)           | 2.7 x 11.5 x 6.24  |
| Receiver Unit Dimensions (hwd / in.)           | 1.063 x 4.528 x 2.457  |
| Receiver Unit Weight (lbs.)                    | 1  |
| Shipping Dimensions (hwd / cm)                 | 5.49 x 26.01 x 16.41   |
| Shipping Dimensions (hwd / in.)                | 2.16 x 10.24 x 6.46  |
| Shipping Weight (kg)                           | 0.56   |
| Shipping Weight (lbs.)                         | 1.23   |
| Transmitter Unit Dimensions (hwd / cm.)        | 2.7 x 11.5 x 6.24  |
| Transmitter Unit Dimensions (hwd / in.)        | 1.063 x 4.528 x 2.457  |
| Transmitter Unit Weight (lbs.)                 | 1  |
| Unit Packaging Type                            | Box  |
| <b>ENVIRONMENTAL</b>                           |  |
| Operating Temperature Range                    | 32 to 104F (0 to 40C)  |
| Storage Temperature Range                      | 5 to 122F (-15 to 50C)   |
| Relative Humidity                              | 0 to 85% RH, Non Condensing  |



| <b>COMMUNICATIONS</b>                        |  |
|--|--|
| Signal Range (ft.)                           | 230  |
| Signal Range (m)                             | 70   |
| Transmission Distance                        | 230 ft.; 400 ft. (with B127A-010-H signal booster) |
| EDID Compatible                              | Yes  |
| IR Remote Extension Support                  | No   |
| RS-232 Serial Extension Support              | No   |
| Consumer Electronics Control (CEC) Supported | No   |
| Latency                                      | Zero Latency                                       |
| USB Extension Support                        | No   |
| <b>CONNECTIONS</b>                           |  |
| Side A - Connector 1                         | (2) HDMI (FEMALE)                                  |
| Side A - Connector 2                         | RJ45 (FEMALE)                                      |
| Side B - Connector 1                         | (2) HDMI (FEMALE)                                  |
| Side B - Connector 2                         | RJ45 (FEMALE)                                      |
| Side B - Connector 3                         | TOSLINK (FEMALE)                                   |
| <b>FEATURES &amp; SPECIFICATIONS</b>         |  |
| HDCP Specification                           | 1.4; 2.2   |
| Driver Required                              | No   |
| Recommended Category Cable                   | 24AWG Cat6   |
| 10/100 Ethernet Extension Support            | No   |
| DIN Mountable                                | No   |
| Integrated/Removable Cable                   | No   |
| MST Support                                  | No   |
| Mounting Accessory Included                  | Yes  |
| Multi-Resolution Support                     | No   |
| Built-In Equalizer                           | Yes  |
| <b>STANDARDS &amp; COMPLIANCE</b>            |  |
| Certifications                               | CE, FCC, ROHS, REACH                               |
| <b>WARRANTY</b>                              |  |
| Product Warranty Period (Worldwide)          | 1-year limited warranty                            |



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