

## DisplayPort to HDMI over Cat6 Extender Kit, Box Transmitter/Wall Plate Receiver, 4K 60 Hz, 4:4:4, PoC, HDCP 2.2, 230 ft. (70.1 m), TAA

MODEL NUMBER: B127A-1A1-BDFH



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

### Features

#### Cat6 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. The metal transmitter box and the single-gang metal wall plate receiver with metal back cover blend perfectly into the room décor.

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

The B127A-1A1-BDFH extends 4K signals from a DisplayPort source device to an HDMI display up to 230 feet (70.1 meters) away via user-supplied Cat6 cabling. By adding a 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 and 4:4:4 Color

The B127A-1A1-BDFH supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz, as specified in HDMI 2.0, with 7.1-channel surround sound. 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 PoC Technology Provides Power to Avoid Bulky External Power Bricks

After you connect the included external power supply to the transmitter, Power over Cable (PoC) technology powers the receiver over Cat6 cable. LEDs on both the transmitter and receiver 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 install the receiver where best needed without worrying about finding a nearby AC outlet.

#### 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.

### Highlights

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- 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
- Stretches 230 ft. signal to 400 ft. with addition of optional B127A-010-H repeater
- 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 receiver is installed, with the freedom to install 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 DisplayPort output (computer, media server, laptop)
- Display device with HDMI input (HDTV, projector, monitor)

### Package Includes

- Box transmitter
- Wall plate 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

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

The included transmitter and receiver units work right out of the box with no software required. Connect the transmitter to the source with a user-supplied DisplayPort cable (such as P580-Series). Then, connect the receiver to the display with a user-supplied HDMI cable (such as P569-XXX-CERT or P568-XXX-2A). Finally, connect the two units with user-supplied Cat6 patch cable (such as N202-Series). Mounting hardware is included for both units.

**TAA-Compliant for GSA Schedule Purchases**

The B127A-1A1-BDFH 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                              | 037332263995   |
| Product Type                          | Extender Kit   |
| Technology                            | Cat5/5e; Cat6; DisplayPort; HDMI; POC                                |
| VIDEO                                 |  |
| Video Input                           | DISPLAYPORT (FEMALE)   |
| Video Output                          | HDMI (FEMALE)  |
| Number of Monitors Supported          | 1  |
| Video Ports                           | (2) HDMI (FEMALE)  |
| Video Ports Details                   | DisplayPort 1.2a; HDMI 2.0; HDCP 1.4; HDCP 2.2                       |
| Resolutions Supported                 | 3840 x 2160 (4K x 2K) @ 60 Hz (both Local HDMI port and HDMI Output) |
| 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  |
| Transmitter Video Input               | DisplayPort  |
| Transmitter - Number of Video Outputs | 2  |
| Transmitter - Local Display Output    | HDMI   |
| Receiver/Transceiver Video Output     | HDMI   |
| Receiver - Number of Video Outputs    | 1  |
| Signal Range (ft)                     | 230  |

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|--|--|
| Signal Range (m)                               | 70   |
| Range Extension using other Tripp Lite product | 170 ft. or 230 ft.   |
| Recommended Cabling                            | Solid Wire Cat6 Cables (Tripp Lite's N202-Series)                            |
| Extended Mode                                  | Yes  |
| Extended Mode Details                          | x1 HDMI Port (4K/60 Hz)  |
| Mirror Mode                                    | Yes  |
| Mirror Mode Details                            | x1 HDMI Port (4K/60 Hz)  |
| Other Tripp Lite product used to extend range  | B127A-010-H or B127A-110-BH  |
| Max Supported Color Depth                      | 36-bit Deep Color  |
| HDR Support                                    | No   |
| 3D Video Supported                             | Yes  |
| Chroma Sub Sampling                            | 4:4:4  |
| Maximum Signal Range (ft)                      | 230  |
| Maximum Signal Range (m)                       | 70   |
| <b>AUDIO</b>                                   |  |
| Audio Ports                                    | HDMI (FEMALE)  |
| Audio Ports Details                            | HDMI outputs support passthrough audio formats including LPCM2.0/5.1/7.1     |
| Audio Input                                    | Displayport  |
| Audio Output                                   | HDMI   |
| Audio Specification                            | Pass-through of Audio format includes LPCM2.0/5.1/7.1                        |
| <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.)             | 4.53   |
| AC Power Adapter Cord Length (m)               | 1.38   |
| 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 end only (Included)  |

|  |   |
|--|---|
| Power Over Cable (PoC) Support               | Yes   |
| Receiver Power Source                        | AC Adapter (Optional); Power Over Cable   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |   |
| LED Indicators                               | Transmitter: (1) Power = Green (unit is receiving power); (1) RJ45 Port = Green (power), Orange (data being sent).<br>Receiver: (1) Data = Orange (data being received from transmitter over Cat6 cabling). |
| <b>PHYSICAL</b>                              |   |
| Color  | Black; White  |
| Material of Construction                     | Metal   |
| Included Mounting Accessories                | (2) Mounting Brackets, (6) Screws   |
| Number of Displays                           | 1   |
| Form Factor/Mounting Options                 | Wallplate   |
| Rackmountable                                | Yes   |
| Receiver Unit Dimensions (hwd / cm.)         | 11.5 x 7 x 3.38   |
| Receiver Unit Dimensions (hwd / in.)         | 4.528 x 2.756 x 1.331   |
| Receiver Unit Weight (kg)                    | 0.65  |
| Receiver Unit Weight (lbs.)                  | 1   |
| Shipping Dimensions (hwd / in.)              | 2.17 x 13.86 x 6.46   |
| Shipping Dimensions (hwd / cm)               | 5.51 x 35.20 x 16.41  |
| Shipping Weight (lbs.)                       | 2.27  |
| Shipping Weight (kg)                         | 1.03  |
| 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 (kg)                 | 0.65  |
| Transmitter Unit Weight (lbs.)               | 1   |
| Unit Packaging Type                          | Box   |
| Unit Weight (lbs.)                           | 1   |
| Unit Weight (kg)                             | 0.45  |
| <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 to 85% RH, Non Condensing   |
| <b>COMMUNICATIONS</b>                        |   |

|  |   |
|--|---|
| Signal Range (ft.)                           | 230   |
| Signal Range (m)                             | 70  |
| Transmission Distance                        | 230 ft.   |
| EDID Compatible                              | Yes   |
| IR Remote Extension Support                  | No  |
| RS-232 Serial Extension Support              | No  |
| Consumer Electronics Control (CEC) Supported | Yes   |
| Latency                                      | 0   |
| USB Extension Support                        | No  |
| <b>CONNECTIONS</b>                           |   |
| Side A - Connector 1                         | DISPLAYPORT (FEMALE)  |
| Side A - Connector 2                         | HDMI (FEMALE)   |
| Side A - Connector 3                         | RJ45 (FEMALE)   |
| Side B - Connector 1                         | HDMI (FEMALE)   |
| Side B - Connector 2                         | RJ45 (FEMALE)   |
| Daisy-chainable / Cascadable                 | No  |
| <b>FEATURES &amp; SPECIFICATIONS</b>         |   |
| All-in-One Kit                               | Yes   |
| Integrated/Removable Cable                   | No  |
| MST Support                                  | No  |
| Mounting Accessory Included                  | Yes   |
| Multi-Resolution Support                     | Yes   |
| Built-In Equalizer                           | Yes   |
| Displayport Specification                    | 1.2a  |
| HDCP Specification                           | 1.4; 2.2  |
| Driver Required                              | No  |
| Recommended Category Cable                   | 24AWG Cat6  |
| DIN Mountable                                | No  |
| <b>STANDARDS &amp; COMPLIANCE</b>            |   |
| External Power Supply Certifications         | CCC; CE; FCC; GS; TUV; UL; cUL  |
| Product Compliance                           | RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA); UKCA |
| <b>WARRANTY &amp; SUPPORT</b>                |   |



1000 Eaton Boulevard  
Cleveland, OH 44122  
United States

|  |                         |
|--|-------------------------|
| Product Warranty Period<br>(Worldwide) | 1-year limited warranty |
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