

## HDMI over Cat6 Extender Kit, Wallplate, 4K 60Hz, HDR, Dual Output, IR, PoC, 230 ft., TAA

MODEL NUMBER: **B127A-2A1-FHFH**



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

### Features

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

This complete wall-plate-style transmitter and dual-output 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 displays are farther apart than conventional A/V cables allow. Both the transmitter and receiver have a single-gang metal wall plate design with a metal back cover and blend perfectly into the room décor.

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

The B127A-2A1-FHFH extends 4K signals from an HDMI source device to two HDMI displays up to 230 feet away via user-supplied Cat6 cabling. Bi-directional IR remote control lets you operate the source from the display end of the installation. By adding a Tripp Lite B127A-010-H HDMI repeater (sold separately) to the application, you can extend the signal up to 400 feet. **Multi-Resolution Support Allows Mixing and Matching of Displays of Different Resolutions** Say you have a brand new 4K (at 60 Hz) HDTV in the living room, but want to also connect your Blu-ray player or satellite box to the older 1080p TV in the bedroom. The B127A-2A1-FHFH is backward compatible with 4K (at 30 Hz) and 1080p (at 60 Hz) resolutions. This allows each connected television to display video at its maximum resolution.

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

The B127A-2A1-FHFH 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 automatically fine-tunes 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 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

### 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 either end via Cat6 cable
- Multi-resolution output allows combination of different display types (ex. 1080p or 4K)
- 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 transmitter or 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 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)
- IR-In cable
- IR-Out cable
- Owner's manual



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After you connect the included external power supply to either the transmitter or receiver, Power over Cable (PoC) technology powers the opposite unit 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 place one unit where needed without worrying about finding a nearby AC outlet.

#### 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 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 patch cable (such as Tripp Lite N202-Series).

#### TAA-Compliant for GSA Schedule Purchases

The B127A-2A1-FHFH 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                              | 037332261038                 |
| Product Type                          | Extender Kit                 |
| Technology                            | HDMI; Cat5/5e; Cat6; POC; IR |
| VIDEO                                 |                              |
| Video Input                           | HDMI (FEMALE)                |
| Video Output                          | HDMI (FEMALE)                |
| Number of Monitors Supported          | 3                            |
| Video Ports                           | (3) HDMI (FEMALE)            |
| Video Ports Details                   | HDMI 2.0; HDCP 1.4; HDCP 2.2 |
| Max Supported Video Resolution        | 3840x2160 (4K @ 60Hz)        |
| 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                            |
| Transmitter - Local Display Output    | HDMI                         |
| Receiver/Transceiver Video Output     | HDMI                         |



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|                                                |                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------|
| Receiver - Number of Video Outputs             | 2                                                                         |
| Range Extension using other Tripp Lite product | 170ft or 230ft                                                            |
| Recommended Cabling                            | Solid Wire Cat6 Cables (Tripp Lite's N202-Series)                         |
| Extended Mode                                  | Yes                                                                       |
| Extended Mode Details                          | x2 HDMI (4K/60 Hz)                                                        |
| Mirror Mode                                    | Yes                                                                       |
| Mirror Mode Details                            | x2 HDMI (4K/60 Hz)                                                        |
| Other Tripp Lite product used to extend range  | B127A-010-H or B127A-110-BH                                               |
| Max Supported Color Depth                      | 36-bit True 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 Ports                                    | (2) HDMI (FEMALE)                                                         |
| Audio Ports Details                            | HDMI outputs support Pass-through Audio formats including LPCM2.0/5.1/7.1 |
| Audio Input                                    | HDMI                                                                      |
| Audio Output                                   | HDMI                                                                      |
| Audio Specification                            | Pass-through audio (LPCM 2.0/5.1/7.1)                                     |
| <b>INPUT</b>                                   |                                                                           |
| 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                                                                       |
| Receiver Power Source                          | AC Adapter (Included); Power Over Cable                                   |
| External Power Supply Input Specs (V / Hz / A) | 100-240V / 50-60Hz / 0.6A                                                 |
| External Power Supply Output Specs (V / A)     | 24V/1A                                                                    |



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|                                              |                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------|
| External Power Supply Cord Length (ft.)      | 4.5                                                                          |
| External Power Supply Cord Length (m.)       | 1.38                                                                         |
| External Power Supply Plug(s)                | AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America |
| USB Power Delivery (PD) Charging Support     | No                                                                           |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                              |
| LED Indicators                               | TX: Orange (Data), RX: Green (Data)                                          |
| <b>PHYSICAL</b>                              |                                                                              |
| Material of Construction                     | Metal                                                                        |
| Color                                        | White                                                                        |
| Included Mounting Accessories                | (4) Screws                                                                   |
| Number of Displays                           | 3                                                                            |
| Form Factor/Mounting Options                 | Wallplate                                                                    |
| Receiver Unit Dimensions (hwd / cm.)         | 11.5 x 7 x 3.4                                                               |
| Receiver Unit Dimensions (hwd / in.)         | 4.53 x 2.76 x 1.33                                                           |
| Receiver Unit Weight (kg)                    | 0.4536                                                                       |
| Receiver Unit Weight (lbs.)                  | 1                                                                            |
| Transmitter Unit Dimensions (hwd / cm.)      | 11.5 x 7 x 3.4                                                               |
| Transmitter Unit Dimensions (hwd / in.)      | 4.53 x 2.76 x 1.33                                                           |
| Transmitter Unit Weight (kg)                 | 0.4536                                                                       |
| Transmitter Unit Weight (lbs.)               | 1                                                                            |
| Unit Packaging Type                          | Box                                                                          |
| <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. (70m) over Cat6; 400 ft. (120 m) with B127A-010-H signal booster     |
| EDID Compatible                              | Yes                                                                          |



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|----------------------------------------------|-------------------------------------|
| IR Remote Extension Support                  | Yes                                 |
| RS-232 Serial Extension Support              | No                                  |
| Consumer Electronics Control (CEC) Supported | Yes                                 |
| Latency                                      | Zero-Latency                        |
| USB Extension Support                        | No                                  |
| <b>CONNECTIONS</b>                           |                                     |
| 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) HDMI (FEMALE)                   |
| Side B - Connector 2                         | RJ45 (FEMALE)                       |
| Side B - Connector 3                         | (2) 3.5MM (FEMALE)                  |
| <b>FEATURES &amp; SPECIFICATIONS</b>         |                                     |
| HDCP Specification                           | 2.2                                 |
| Driver Required                              | No                                  |
| Recommended Category Cable                   | Cat6                                |
| All-in-One Kit                               | Yes                                 |
| 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>            |                                     |
| External Power Supply Certifications         | CE; FCC; CCC; GS; TUV; UL; cUL      |
| Product Compliance                           | RoHS; CE (Europe); REACH; FCC (USA) |
| <b>WARRANTY</b>                              |                                     |
| Product Warranty Period (Worldwide)          | 1-year limited warranty             |

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