

## 4-Port HDMI over Cat6 Extender Switch Kit, Wall Plate/Box - 4K 60 Hz, HDR, 4:4:4, IR, PoC, 230 ft. (70.1 m), TAA

MODEL NUMBER: **B127A-4X1-BH**



HDMI extender kit with receiver transmits and allows switching among four 4K signals to an HDMI display up to 230 ft. away via Cat6 cable.

### Features

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

This HDMI switch kit includes a quad-input wall plate switch and a box-style receiver. It's recommended for office buildings, schools, houses of worship, trade shows, meeting facilities, retail settings, hotels and other settings with video presentations or digital signage applications. It extends 4K audio/video up to 230 feet (70.1 meters), making it ideal for areas where the four source devices and single display are farther apart than conventional cabling allows.

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

The B127A-4X1-BH transmits and allows switching among four HDMI sources to an HDMI display up to 230 feet away via user-supplied Cat6 cabling. You may select which video to display using the push button on the switch or the included IR remote control, which lets you operate the switch from the receiver end of the installation. By installing a B127A-010-H signal repeater (sold separately) between the switch and receiver, 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-4X1-BH supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz, as specified in HDMI 2.0, with 36-bit Deep Color and DTS-HD, Dolby TrueHD and 7.1-channel surround sound via TOSLINK port. 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 PoC Technology Provides Power to Avoid Bulky External Power Bricks

After you connect the included external power supply to the switch, Power over Cable (PoC) technology powers the receiver over Cat6 cable. LEDs on both the switch 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 the receiver without the need for a nearby AC outlet.

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

The included double-gang metal wall plate switch and box receiver operate with no software required. The receiver comes with detachable brackets for mounting to a pole, rack or flat surface. Connect the switch to as many as four sources with user-supplied HDMI cables (such as P568- or P569-Series). Then, connect

### Highlights

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- Switches between 4 source devices by manual push button or included IR remote
- Carries High Dynamic Range (HDR) signals for rich contrast and expanded color accuracy
- Power over Cable (PoC) technology provides power to receiver via Cat6 cable
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

### Applications

Switch between 4 different digital signage messages to display up to 230 ft. awayExtend video signals from one room to another using Cat6 cable, which can pass through conduit to meet building codesGain flexibility in where the PoC receiver is installed, with the freedom to install it away from an AC outletImprove the line of sight for digital signage in a hotel, restaurant, theater, house of worship, trade show or other location

### System Requirements

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

### Package Includes

- Wall plate switch
- Box receiver
- IR adapter
- IR remote control
- External power supply (Input: 100–240V, 50/60 Hz, 0.6A; Output: 24V 1A)
- (4) International plug adapters (North America, Europe, U.K., Australia)
- Mounting hardware
- Owner's manual



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the receiver to the display with an HDMI cable. Finally, connect the two units with user-supplied Cat6 patch cable (such as N202-Series).

#### TAA-Compliant for GSA Schedule Purchases

The B127A-4X1-BH 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                                       | 037332264107                                       |
| Product Type                                   | Extender Kit                                       |
| Technology                                     | Cat6; HDMI; Stereo Audio                           |
| VIDEO                                          |                                                    |
| Video Input                                    | HDMI (FEMALE)                                      |
| Video Output                                   | HDMI (FEMALE)                                      |
| Number of Monitors Supported                   | 1                                                  |
| Video Ports                                    | (4) 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 @ 60 Hz                                |
| 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) Range (ft)                | 230                                                |
| Maximum Distance with Booster                  | 400                                                |
| Transmitter Video Input                        | HDMI                                               |
| Transmitter - Number of Video Outputs          | 1                                                  |
| Receiver/Transceiver Video Output              | HDMI                                               |
| Receiver - Number of Video Outputs             | 1                                                  |
| Signal Range (ft)                              | 230                                                |
| Signal Range (m)                               | 70                                                 |
| Range Extension with Booster                   | Yes                                                |
| Range Extension using other Tripp Lite product | Up to 400 ft. total                                |



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|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Extended Mode                                 | No                                                                                   |
| Mirror Mode                                   | No                                                                                   |
| Other Tripp Lite product used to extend range | B27A-010-H                                                                           |
| Max Supported Color Depth                     | 36-bit Deep Color                                                                    |
| HDR Support                                   | Yes                                                                                  |
| 3D Video Supported                            | Yes                                                                                  |
| Chroma Sub Sampling                           | 4:4:4                                                                                |
| Signal Transmission                           | Unidirectional                                                                       |
| <b>AUDIO</b>                                  |                                                                                      |
| Audio Ports                                   | HDMI (FEMALE); TOSLINK (FEMALE)                                                      |
| Audio Ports Details                           | Pass-through audio to whichever display is currently in use, or via the Toslink port |
| Audio Input                                   | HDMI                                                                                 |
| Audio Output                                  | HDMI; Toslink                                                                        |
| Audio Specification                           | Supports pass-through of Audio format including 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                                                                                 |
| Voltage Compatibility (VAC)                   | 100; 110; 120; 125; 127; 200; 208; 220; 230; 240                                     |
| Bus Powered                                   | No                                                                                   |
| Power Source                                  | AC Adapter                                                                           |
| <b>POWER</b>                                  |                                                                                      |
| Power Source Type                             | AC Adapter                                                                           |
| AC Plug Type                                  | AS/NZS 3112; BS1363; Bare Wire; CEE 7/16 Schuko; NEMA 1-15P                          |
| Power Source                                  | Transmitter end only (Included)                                                      |
| Power Over Cable (PoC) Support                | Yes                                                                                  |
| Receiver Power Source                         | Power Over Cable                                                                     |
| <b>CONNECTIONS</b>                            |                                                                                      |
| Number of Ports                               | 4                                                                                    |
| Side A - Connector 1                          | (4) HDMI (FEMALE)                                                                    |



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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Side A - Connector 2                         | RJ45 (FEMALE)                                                                                                                                                                                                                                                                                                         |
| Side A - Connector 3                         | 3.5MM (FEMALE)                                                                                                                                                                                                                                                                                                        |
| Side B - Connector 1                         | HDMI (FEMALE)                                                                                                                                                                                                                                                                                                         |
| Side B - Connector 2                         | RJ45 (FEMALE)                                                                                                                                                                                                                                                                                                         |
| Side B - Connector 3                         | TOSLINK (FEMALE)                                                                                                                                                                                                                                                                                                      |
| Input x Output                               | 4 x 1                                                                                                                                                                                                                                                                                                                 |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                                                                                                                       |
| LED Indicators                               | Switch Unit: (x1) Power/Data = Solid Green (Powered by external power supply), Flashing Green (Sending data to receiver), (x4) Output LED's = Orange (Shows which port is currently displaying to receiver); Receiver: (x1) Power = Green (Receiving power), (x1) RJ45 Port = Green (power), Orange (receiving data)0 |
| <b>PHYSICAL</b>                              |                                                                                                                                                                                                                                                                                                                       |
| Color                                        | Black; White                                                                                                                                                                                                                                                                                                          |
| Material of Construction                     | Metal                                                                                                                                                                                                                                                                                                                 |
| Included Mounting Accessories                | Wall-plate switch includes screws; Receiver includes mounting brackets and screws                                                                                                                                                                                                                                     |
| Number of Displays                           | 1                                                                                                                                                                                                                                                                                                                     |
| Form Factor/Mounting Options                 | Box; Rackmount; Wall-mount; Wallplate                                                                                                                                                                                                                                                                                 |
| 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 (kg)                    | 0.453                                                                                                                                                                                                                                                                                                                 |
| Receiver Unit Weight (lbs.)                  | 1                                                                                                                                                                                                                                                                                                                     |
| Shipping Dimensions (hwd / in.)              | 3.27 x 13.54 x 5.91                                                                                                                                                                                                                                                                                                   |
| Shipping Dimensions (hwd / cm)               | 8.31 x 34.39 x 15.01                                                                                                                                                                                                                                                                                                  |
| Shipping Weight (lbs.)                       | 3.05                                                                                                                                                                                                                                                                                                                  |
| Shipping Weight (kg)                         | 1.39                                                                                                                                                                                                                                                                                                                  |
| Transmitter Unit Dimensions (hwd / cm.)      | 11.45 x 11.6 x 5.12                                                                                                                                                                                                                                                                                                   |
| Transmitter Unit Dimensions (hwd / in.)      | 4.51 x 4.57 x 2.02                                                                                                                                                                                                                                                                                                    |
| Transmitter Unit Weight (kg)                 | 0.453                                                                                                                                                                                                                                                                                                                 |
| 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                                                                                                                                                                                                                                                                                           |



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| COMMUNICATIONS                               |                                                                 |
|----------------------------------------------|-----------------------------------------------------------------|
| 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                  | Yes                                                             |
| Consumer Electronics Control (CEC) Supported | No                                                              |
| Latency                                      | 3-5 seconds (switching between ports)                           |
| FEATURES & SPECIFICATIONS                    |                                                                 |
| All-in-One Kit                               | Yes                                                             |
| Integrated/Removable Cable                   | No                                                              |
| MST Support                                  | No                                                              |
| Mounting Accessory Included                  | Yes                                                             |
| Multi-Resolution Support                     | No                                                              |
| Port Selection                               | Pushbutton; Remote Selector                                     |
| HDCP Specification                           | 2.2                                                             |
| Driver Required                              | No                                                              |
| Recommended Category Cable                   | 24 AWG Cat6                                                     |
| DIN Mountable                                | No                                                              |
| STANDARDS & COMPLIANCE                       |                                                                 |
| External Power Supply Certifications         | CCC; CE; FCC; GS; LPS; TUV; UL; cUL                             |
| Product Compliance                           | RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA) |
| WARRANTY & SUPPORT                           |                                                                 |
| Product Warranty Period (Worldwide)          | 1-year limited warranty                                         |

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