

## 4x4 HDMI over Cat6 Matrix Switch Kit, Switch/4x Pigtail Receivers - 4K 60 Hz, HDR, 4:4:4, PoC, 230 ft. (70.1 m), TAA

MODEL NUMBER: B127A-4X4-BH4PH



Switch/quad-receiver combo allows custom switching of four HDMI 4K video/audio signals to four HDMI 4K displays up to 230 ft. away.

### Features

#### HDMI Matrix Switch Kit Ideal for Digital Signage in Offices, Schools and Trade Shows

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

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

The B127A-4X4-BH4PH allows video from any of four connected HDMI sources to display on four HDMI displays up to 230 feet away via user-supplied Cat6 cabling. You may select which video to display on which monitors by 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 Tripp Lite B127A-010-H signal repeaters (sold separately) between the switch and receivers, you can extend the signal up to 400 feet (121.9 meters) total per video output.

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

The B127A-4X4-BH4PH 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. 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 switch 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 receivers over Cat6 cable. LEDs on both the switch and receivers 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 receivers without the need for a nearby AC outlet.

#### Multi-Resolution Support Allows Mixing and Matching of Displays of Different Resolutions

Say you have a brand new 4K/60 Hz HDTV in the living room, but want to extend video from the source devices to the older 1080p TV in the kitchen and the 4K (at 30 Hz) monitor in your home office. The

### 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 receivers via Cat6 cable
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

### System Requirements

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

### Package Includes

- 4X4 Matrix switch
- (4) Pigtail receivers
- IR adapter cable
- IR remote control
- RS-232 adapter
- External power supply (Input: 100–240V, 50/60 Hz, 1.5A; Output: 24V 2A)
- (4) International plug adapters (Australia, Europe, U.S., U.K.)
- Mounting hardware
- Owner's manual



B127A-4X4-BH4PH is backward compatible with 4K/30 Hz and 1080p resolutions via automatic switching, allowing each connected monitor to display video at its maximum resolution.

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

The included matrix switch and receivers operate with no software required. The switch comes with detachable surface-mount 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 Tripp Lite's P568- or P569-Series). Then, connect the pigtail receivers' built-in HDMI plugs to the displays. Finally, connect the switch to the receivers with user-supplied Cat6 patch cable (such as Tripp Lite N202-Series).

#### TAA-Compliant for GSA Schedule Purchases

The B127A-4X4-BH4PH 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                              | 037332269607                                       |
| Product Type                          | HDMI over Cat6 Matrix Switch Kit                   |
| Device Compatibility                  | Chromebook; Computer; Laptop                       |
| Technology                            | Cat5/5e; Cat6; HDMI; POC                           |
| Host Connector                        | (4) HDMI (FEMALE)                                  |
| VIDEO                                 |  |
| Video Input                           | HDMI (FEMALE)                                      |
| Video Output                          | HDMI (FEMALE); RJ45 (FEMALE)                       |
| Number of Monitors Supported          | 4  |
| Video Ports                           | (4) HDMI (FEMALE); (4) RJ45 (FEMALE)               |
| Video Ports Details                   | HDMI 2.0; 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 | 4  |



|  |  |
|--|--|
| Transmitter - Local Display Output             | HDMI or DVI w/ adapter                           |
| Receiver/Transceiver Video Output              | HDMI   |
| Receiver - Number of Video Outputs             | 4  |
| Signal Range (ft)                              | 230  |
| Signal Range (m)                               | 70   |
| Range Extension with Booster                   | Yes  |
| Range Extension using other Tripp Lite product | 400 ft.  |
| Extended Mode                                  | No   |
| Mirror Mode                                    | No   |
| 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  |
| Signal Transmission                            | Unidirectional                                   |
| <b>AUDIO</b>                                   |  |
| Audio Ports                                    | (4) HDMI (FEMALE)                                |
| Audio Ports Details                            | Lossless audio including LPCM 7.1                |
| Audio Input                                    | HDMI   |
| Audio Output                                   | HDMI   |
| Audio Specification                            | Lossless audio including LPCM 7.1                |
| <b>INPUT</b>                                   |  |
| Voltage Compatibility (VAC)                    | 100; 110; 120; 125; 127; 200; 208; 220; 230; 240 |
| Built-In Cable Length (ft.)                    | 1  |
| Built-In Cable Length (m)                      | 0.305  |
| Built-In Cable Length (in.)                    | 12   |
| Built-In Cable Length (cm)                     | 30.5   |
| Bus Powered                                    | No   |
| Power Source                                   | AC Adapter                                       |
| <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                          | Power Over Cable  |
| External Power Supply Input Specs (V / Hz / A) | 100-240V / 50/60 Hz / 1.5A  |
| External Power Supply Output Specs (V / A)     | 24V / 2A  |
| External Power Supply Cord Length (ft.)        | 4.53  |
| 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  |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>   |   |
| LED Indicators                                 | Transmitter: OUTPUT (1-4) = x4 Orange (Port is currently in use); A, B, C, D LED's = x16 Green (Indicates which output is in use); POWER = x1 Green (Unit is powered); RJ45 Power/Signal (1-4) = x4 Green (Solid when connected to power, Flashes when transmitting video). Receivers (x4): Power (x4 Green), Link Indicator (x4 Orange). |
| <b>PHYSICAL</b>                                |   |
| Material of Construction                       | Metal   |
| Color  | Black   |
| Included Mounting Accessories                  | Yes   |
| Number of Displays                             | 4   |
| Form Factor/Mounting Options                   | Box; Pigtail; Rackmount; Tabletop; Wall-mount   |
| Usable Rack Space                              | 1U  |
| Rackmountable                                  | Yes   |
| Receiver Unit Dimensions (hwd / cm.)           | 1.86 x 4.7 x 7.5  |
| Receiver Unit Dimensions (hwd / in.)           | 0.732 x 1.85 x 2.95   |
| Receiver Unit Weight (lbs.)                    | 1   |
| Transmitter Unit Dimensions (hwd / cm.)        | 4.4 x 44 x 18.1   |
| Transmitter Unit Dimensions (hwd / in.)        | 1.73 x 17.32 x 7.13   |
| Transmitter Unit Weight (lbs.)                 | 4.34  |
| Unit Dimensions (hwd / in.)                    | 1.73 x 17.32 x 7.13   |
| Unit Dimensions (hwd / cm)                     | 4.4 x 44 x 18.1   |
| Unit Packaging Type                            | Box   |
| Unit Weight (lbs.)                             | 2   |
| Unit Weight (kg)                               | 0.91  |



| <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>                        |                             |
| Max 1024 x 768 Range (ft)                    | 230                         |
| Signal Range (ft.)                           | 230                         |
| Signal Range (m)                             | 70                          |
| Max 480P Range (ft)                          | 230                         |
| Transmission Distance                        | 230                         |
| Max 1440 x 900 Range (ft)                    | 230                         |
| Max 1080i Range (ft)                         | 230                         |
| Max 4K UHD Range (ft)                        | 230                         |
| Max 480i Range (ft)                          | 230                         |
| Max 640 x 480 Range (ft)                     | 230                         |
| Max 800 x 600 Range (ft)                     | 230                         |
| Max 1600 x 1200 Range (ft)                   | 230                         |
| EDID Compatible                              | Yes                         |
| IR Remote Extension Support                  | Yes                         |
| RS-232 Serial Extension Support              | Yes                         |
| Consumer Electronics Control (CEC) Supported | Yes                         |
| Latency                                      | Zero latency                |
| <b>CONNECTIONS</b>                           |                             |
| Number of Ports                              | 13                          |
| Side A - Connector 1                         | (4) HDMI (FEMALE)           |
| Side A - Connector 2                         | (4) RJ45 (FEMALE)           |
| <b>FEATURES &amp; SPECIFICATIONS</b>         |                             |
| Port Selection                               | Pushbutton; Remote Selector |
| HDCP Specification                           | 1.4; 2.2                    |
| Driver Required                              | No                          |
| Recommended Category Cable                   | 24AWG Cat6 UTP Cable        |
| All-in-One Kit                               | Yes                         |



**Tripp Lite**  
1111 W. 35th Street  
Chicago, IL 60609 USA  
Telephone: 773.869.1234  
[www.tripplite.com](http://www.tripplite.com)

|                                      |  |
|--------------------------------------|--|
| DIN Mountable                        | No   |
| Integrated/Removable Cable           | No   |
| MST Support                          | No   |
| Mounting Accessory Included          | Yes  |
| Multi-Resolution Support             | Yes  |
| <b>STANDARDS &amp; COMPLIANCE</b>    |  |
| External Power Supply Certifications | CCC; GS; LPS; PSE; RCM; TUV; UL; WEEE; cUL |
| Product Compliance                   | RoHS; CE (Europe); REACH; FCC (USA)        |
| <b>WARRANTY</b>                      |  |
| Product Warranty Period (Worldwide)  | 1-year limited warranty                    |

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