

## 4x2 HDMI over Cat6 Matrix Switch Kit, Switch/2x Pigtail Receivers - 4K 60 Hz, HDR, 4:4:4, PoC, 230 ft. (70.1 m), TAA

MODEL NUMBER: B127A-4X2-BH2PH



Switch/dual-receiver combo allows custom switching of four HDMI 4K video/audio signals to two 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 two 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 dual displays are farther apart than conventional cabling allows.

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

The B127A-4X2-BH2PH allows video from any of four connected HDMI sources to display on two 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 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-4X2-BH2PH 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 or the 4K (at 30 Hz) monitor in your home office. The B127A-4X2-BH2PH is backward compatible with 4K/30 Hz and 1080p resolutions via automatic switching,

### 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

- 4x2 Matrix switch
- (2) Pigtail receivers
- IR adapter cable
- IR remote control
- RS-232 adapter
- External power supply (Input: 100-240V, 50/60 Hz, 1.5A; Output: 24V 1A)
- (4) International plug adapters (Australia, Europe, U.S., U.K.)
- Mounting hardware
- Owner's manual



Powering Business Worldwide

TRIPP LITE  
SERIES

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 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 N202-Series).

**TAA-Compliant for GSA Schedule Purchases**

The B127A-4X2-BH2PH 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                              | 037332269591   |
| Product Type                          | Matrix Switch  |
| Technology                            | Cat5/5e; Cat6; HDMI; POC   |
| Host Connector                        | HDMI (FEMALE)  |
| VIDEO                                 |  |
| Video Input                           | HDMI (FEMALE)  |
| Video Output                          | HDMI (FEMALE)  |
| Number of Monitors Supported          | 2  |
| Video Ports                           | (2) HDMI (FEMALE)  |
| Video Ports Details                   | HDMI 2.0; HDCP 2.2   |
| Supported Resolutions                 | 1280x720 (720p); 1920x1080 (1080p); 1920x1200; 2560x1600; 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 | 2  |
| Transmitter - Local Display Output    | HDMI or DVI w/ adapter   |
| Receiver/Transceiver Video Output     | HDMI   |



Powering Business Worldwide

TRIPP LITE  
SERIES

|  |  |
|--|--|
| 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 | 170 ft. (400 ft. total)  |
| Extended Mode                                  | No   |
| Mirror Mode                                    | No   |
| Other Tripp Lite product used to extend range  | B127A-010-H (x1 per output)  |
| 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                                    | (2) HDMI (FEMALE)  |
| Audio Ports Details                            | (x2) Outputs support lossless audio formats such as LPCM 7.1                 |
| Audio Input                                    | HDMI   |
| Audio Output                                   | HDMI   |
| Audio Specification                            | Supports lossless audio formats such as LPCM 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 / 1.5A  |
| AC Power Adapter Output Specs (V / A)          | 24V / 1A   |
| AC Power Adapter Cord Length (ft.)             | 4.52   |
| 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; CEE 7/16 Schuko; NEMA 1-15P                             |
| Power Source                                   | Transmitter end only (Included)  |



Powering Business Worldwide

TRIPP LITE  
SERIES

|  |  |
|--|--|
| Power Over Cable (PoC) Support               | Yes  |
| Receiver Power Source                        | Power Over Cable   |
| <b>CONNECTIONS</b>                           |  |
| Number of Ports                              | 6  |
| Side A - Connector 1                         | (2) HDMI (FEMALE)  |
| Side A - Connector 2                         | (4) RJ45 (FEMALE)  |
| Input x Output                               | 4 x 2  |
| Daisy-chainable / Cascadable                 | No   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |  |
| LED Indicators                               | TRANSMITTER: OUTPUT 1-2 (x2 Orange, lights up when the Output 1 and Output 2 buttons are pressed); A, B, C, D (x8 Green, lights up when one of the four desired sources has been selected for the two receiver outputs); Power (x1 Green, lights up when the switch is connected to power); Power/Signal Indicator 1-2 (x2 Green, lights up when the receivers are connected to the switch and being powered. Flashes green when video is being transmitted).<br>RECEIVERS: Power (x1 per receiver Green, lights up to indicate receiver is being powered by switch); Signal (x1 per receiver, Orange, lights up when video is being transmitted to receiver). |
| <b>PHYSICAL</b>                              |  |
| Color  | Black  |
| Material of Construction                     | Metal  |
| Number of Displays                           | 2  |
| Form Factor/Mounting Options                 | Box; 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 17.3 x 7.13   |
| Transmitter Unit Weight (lbs.)               | 3.98   |
| Unit Packaging Type                          | Box  |
| Mounting Details                             | Surface Mount Bracket (x2), Screws (x4)  |
| <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  |



Powering Business Worldwide

TRIPP LITE  
SERIES

| COMMUNICATIONS                               |   |
|--|---|
| Signal Range (ft.)                           | 230   |
| Signal Range (m)                             | 70  |
| Transmission Distance                        | 230 ft.   |
| EDID Compatible                              | Yes   |
| IR Remote Extension Support                  | Yes   |
| RS-232 Serial Extension Support              | Yes   |
| Consumer Electronics Control (CEC) Supported | Yes   |
| Latency                                      | Zero Latency  |
| USB Extension Support                        | No  |
| FEATURES & SPECIFICATIONS                    |   |
| All-in-One Kit                               | Yes   |
| Integrated/Removable Cable                   | No  |
| MST Support                                  | No  |
| Mounting Accessory Included                  | Yes   |
| Multi-Resolution Support                     | Yes   |
| 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; GS; LPS; PSE; RCM; TUV; UL; WEEE; cUL                      |
| Product Compliance                           | RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA) |
| WARRANTY & SUPPORT                           |   |
| Product Warranty Period (Worldwide)          | 1-year limited warranty   |

1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
<https://triplite.eaton.com>

© 2025 Eaton. All Rights Reserved.  
Eaton is a registered trademark. All other trademarks  
are the property of their respective owners.