

## 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-

### 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

4X2-BH2PH 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 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
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)
Power Over Cable (PoC) Support	Yes
Receiver Power Source	Power Over Cable
<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). 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
Included Mounting Accessories	Surface Mount Bracket (x2), Screws (x4)
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
<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	Yes
RS-232 Serial Extension Support	Yes
Consumer Electronics Control (CEC) Supported	Yes
Latency	Zero Latency
USB Extension Support	No
<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>FEATURES &amp; SPECIFICATIONS</b>	
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
<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); Trade Agreements Act (TAA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	1-year limited warranty



1000 Eaton Boulevard  
Cleveland, OH 44122  
United States



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