

## HDMI over Cat6 Receiver with Repeater, 4K 60Hz, HDR, 4:4:4, IR Transceiver, PoC, HDCP 2.2, 230 ft., TAA

MODEL NUMBER: B127A-110-BH



Works with Tripp Lite's HDMI extender kit to extend 4K video an extra 230 ft. between source and display via Cat6 cable.

### Features

#### HDMI Extender Transceiver Unit Ideal for Digital Signage in Schools and Restaurants

This 4K IR transceiver 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 display are farther apart than conventional A/V cables allow.

#### Combines with Tripp Lite HDMI Extender Kit to Add More Distance

The B127A-110-BH works with Tripp Lite's B127A-111-BHTH extender kit (sold separately) to further extend a 4K audio/video signal up to 230 feet. It connects between the transmitter and transceiver from the extender kit with user-supplied Cat6 cabling. IR remote control lets you operate the source from the display end of the installation.

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

The B127A-110-BH 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 transceiver also supports 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor. Built-in equalization allows you to fine-tune the image quality at the remote display.

#### Create a Daisy Chain to Achieve More Distance

This transceiver combines with the Tripp Lite B127A-111-BHTH extender kit (sold separately) and additional B127A-110-BH transceivers to form daisy-chain installations up to 920 feet from the transmitter. Up to four total transceivers can be chained together, each capable of extending a 4K/60 Hz signal up to 230 feet per unit. In addition to the extender kit, this transceiver is also compatible with Tripp Lite's B127A-1A1-BCBH, B127A-1A1-BDBH and B127A-1A1-BHBH and can be used to replace any receivers in the installation as well.

#### Add a Tripp Lite Signal Booster to Achieve, Yes, Even More Distance

The transceiver is also compatible with Tripp Lite's B127A-010-H signal booster (sold separately), which allows the signal to be boosted up to 400 feet total between the transmitter and transceiver. When used in

### Highlights

- Combines with Tripp Lite's B127A-111-BHTH to extend 4K signals up to 230 ft.
- 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 the receiver via Cat6 cable
- 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 transceiver is placed, with the freedom to move and relocate 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 with HDMI input (HDTV, projector, monitor)
- Tripp Lite B127A-111-BHTH HDMI over Cat6 Extender Kit

### Package Includes

- B127A-110-BH HDMI over Cat6 IR Transceiver
- 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)
- Mounting hardware
- Owner's manual



a daisy-chain installation, this brings the total extension distance up to 1,090 ft. **Note:** B127A-010-H will only work when used in the first link of the daisy-chain installation.

#### **Built-In PoC Technology Lets You Avoid Bulky External Power Bricks**

Power over Cable (PoC) technology powers the receiver at the end of the chain over Cat6 cable. LEDs on both the transmitter and transceiver 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 transceiver where needed without worrying about finding a nearby AC outlet. Power is also equally distributed to any additional transceivers within a daisy-chain installation.

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

The transceiver works right out of the box with no software required. Mounting hardware is included for installing it on a wall, pole or 19-inch rack. Connect the transceiver to a transmitter and any additional transceiver with user-supplied Cat6 patch cable (such as Tripp Lite's N202-Series). Connect to a 4K display with a user-supplied HDMI cable (such as Tripp Lite's P568- or P569-Series).

#### **TAA-Compliant for GSA Schedule Purchases**

The B127A-110-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	037332258601
Product Type	Transceiver
Technology	HDMI; Cat5/5e; Cat6; POC; IR
VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Video Ports	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	3840x2160 (4K @ 60Hz)
Max. Distance (Between any 2 Units)	230 ft.
Max 720P Range (ft)	230
Max 1080P Range (ft)	230
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



Max 3840 x 2160 (4K@30Hz) Range (ft)	230
Max 3840 x 2160 (4K@60Hz) Range (ft)	230
Receiver/Transceiver Video Output	HDMI
Receiver - Number of Video Outputs	1
Signal Range (ft)	230
Signal Range (m)	70
Range Extension using other Tripp Lite product	170 ft.
Recommended Cabling	Solid Wire Cat6 Cables (Tripp Lite's N202-Series)
Other Tripp Lite product used to extend range	B127A-010-H
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 Input	HDMI
Audio Output	Toslink; HDMI
Audio Specification	Pass-through audio (LPCM 2.0/5.1/7.1)
<b>INPUT</b>	
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	Unit (Included)
Power Over Cable (PoC) Support	Yes
External Power Supply Input Specs (V / Hz / A)	100-240V / 50-60Hz / 0.6A
External Power Supply Output Specs (V / A)	24V/1A
External Power Supply Cord Length (ft.)	4.5
External Power Supply Cord Length (m.)	1.38



<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
LED Indicators	Green (Power); RJ45 ports: Green (Connection), Orange (Activity)
<b>PHYSICAL</b>	
Material of Construction	Metal
Color	Black
Included Mounting Accessories	Brackets
Number of Displays	1
Form Factor/Mounting Options	Box; Wall-mount
Rackmountable	Yes
Unit Dimensions (hwd / cm)	2.7 x 11.5 x 6.24
Unit Dimensions (hwd / mm)	27 x 115 x 62.4
<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., 400 ft. with B127A-010-H signal booster
EDID Compatible	Yes
IR Remote Extension Support	No
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	RJ45 (FEMALE)
Side A - Connector 2	3.5MM (FEMALE)
Side B - Connector 1	HDMI (FEMALE)
Side B - Connector 2	RJ45 (FEMALE)
Side B - Connector 3	3.5MM (FEMALE)
Side B - Connector 4	TOSLINK (FEMALE)



<b>PORT EXPANSION</b>	
Daisy-chainable or Cascadable	Daisychainable up to 4 links
<b>FEATURES &amp; SPECIFICATIONS</b>	
HDCP Specification	1.4; 2.2
Driver Required	No
Recommended Category Cable	Cat6
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	No
<b>STANDARDS &amp; COMPLIANCE</b>	
External Power Supply Certifications	CE; FCC; CCC; GS; TUV; UL; cUL
Certification & Compliance	CE (Europe); RoHS; REACH; FCC (USA)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	1-year limited warranty

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