

# 2-Port HDMI over Cat6 Receiver - 4K 60 Hz, HDR, 4:4:4, PoC, HDCP 2.2, 230 ft. (70.1 m), TAA

# MODEL NUMBER: B127A-2A0-BH











Works with a Tripp Lite B127A-Series transmitter, switch or splitter to extend 4K video 230 ft. to 2 HDMI displays via Cat6 cable.

#### **Features**

#### **HDMI Dual-Output Receiver Ideal for Digital Signage in Schools and Workplaces**

This 4K receiver 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.

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

The B127A-2A0-BH connects to a B127A-Series transmitter, switch or splitter to extend 4K signals from an HDMI source to two HDMI displays up to 230 feet (70.1 meters) away via user-supplied Cat6 cabling. By adding a B127A-010-H signal repeater (sold separately) to the application, you can extend the signal up to 400 feet (121.9 meters) per display.

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

The B127A-2A0-BH supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz with 7.1-channel surround sound audio via TOSLINK. 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 receiver 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 displays.

#### Built-In PoC Technology Provides Receiver Power to Avoid Bulky External Power Bricks

Power over Cable (PoC) technology powers the B127A-2A0-BH over Cat6 cable. LEDs indicate when 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 where needed without worrying about finding a nearby AC outlet.

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

The receiver works right out of the package with no software required. Mounting hardware is included for installing it on a wall, pole or 19-inch rack. Connect the receiver to a transmitter, switch or splitter with user-supplied Cat6 cable (such as N202-Series). Connect to two 4K displays with user-supplied HDMI cables (such as P568- or P569-Series).

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

# **Highlights**

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- Carries High Dynamic Range (HDR) signals for rich contrast and expanded color accuracy
- Combines with optional B127A-010-H repeater to extend signal to 400 ft.
- 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 receiver 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(s) with HDMI input (HDTV, projector, monitor)
- B127A-Series transmitter, switch or splitter

#### **Package Includes**

- B127A-2A0-BH 2-Port HDMI over Cat6 Receiver
- Mounting hardware
- Owner's manual



The B127A-2A0-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**

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OVERVIEW		
UPC Code	037332264053	
Product Type	Receiver	
Technology	Cat5/5e; Cat6; HDMI; POC; Toslink/SPDIF	
VIDEO		
Video Input	RJ45 (FEMALE)	
Video Output	HDMI (FEMALE)	
Number of Monitors Supported	2	
Video Ports	(2) HDMI (FEMALE)	
Video Ports Details	HDMI 2.0; HDCP 2.2	
Resolutions Supported	3840 x 2160 (4K x 2K) @ 60 Hz	
Max Supported Video Resolution	3840 x 2160 @ 60 Hz	
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@30Hz) Range (ft)	230	
Max 3840 x 2160 (4K@60Hz) Range (ft)	230	
Receiver/Transceiver Video Output	НОМІ	
Receiver - Number of Video Outputs	2	
Signal Range (ft)	230	
Signal Range (m)	70	
Range Extension using other Tripp Lite product	400 ft.	
Recommended Cabling	Solid Wire 24AWG Cat6 Cabling (Tripp Lite N202-Series)	
Extended Mode	Yes	
Extended Mode Details	x2 HDMI Ports (4K/60 Hz)	
Mirror Mode	Yes	
Mirror Mode Details	x2 HDMI Ports (4K/60 Hz)	



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Other Tripp Lite product used to extend range	B127A-010-H Signal Booster (x1 per output)		
Max Supported Color Depth	36-bit Deep Color		
HDR Support	Yes		
3D Video Supported	Yes		
Chroma Sub Sampling	4:4:4		
Maximum Signal Range (ft)	230		
Maximum Signal Range (m)	70		
AUDIO			
Audio Ports	(2) HDMI (FEMALE); TOSLINK (FEMALE)		
Audio Ports Details	Supports pass-through audio formats including LPCM 2.0/5.1/7.1		
Audio Input	HDMI		
Audio Output	HDMI		
Audio Specification	Supports pass-through of Audio format includes LPCM2.0/5.1/7.1; TOSLINK Port		
INPUT	INPUT		
Bus Powered	No		
POWER			
Power Source	Transmitter end only (Optional)		
Power Over Cable (PoC) Support	Yes		
Receiver Power Source	Power Over Cable		
USER INTERFACE, ALERTS & CON	TROLS		
LED Indicators	Power (x1) = Green; RJ45 Port: (x2) Green = Power, (x2) Orange = Video received from source		
PHYSICAL			
Color	Black		
Material of Construction	Metal		
Included Mounting Accessories	Yes		
Number of Displays	2		
Form Factor/Mounting Options	Вох		
Rackmountable	Yes		
Shipping Dimensions (hwd / in.)	2.17 x 8.43 x 6.46		
Shipping Dimensions (hwd / cm)	5.51 x 21.41 x 16.41		
Shipping Weight (lbs.)	1.23		
Shipping Weight (kg)	0.56		
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Unit Dimensions (twd / in/)         1,093 A,528 x 2.457           Unit Dimensions (twd / in/)         27 x 11 5 x 8.24           Unit Weight (bs.)         1           Unit Weight (kg)         0.45           ENVIRONMENTAL           Comparison of 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           COMMUNICATIONS           Signal Range (th.)         230           Signal Range (th.)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           R Romote Extension Support         No           Consumer Electronics Control (CEC)         No           Supported         No           CONNECTIONS           Side B - Connector 1         R.145 (FEMALE)           Dalsy-chainable / Cascadable         No           FEATURES & SPECIFICATIONS           FEATURES & SPECIFICATIONS           Will-in-Cone Rtill         No           Molitical Processory Included         No           Molitical Processory Included         Yes           Built-in-Equalizer <th></th> <th></th>			
Unit Packaging Type         Box           Unit Weight (lbs.)         1           Unit Weight (kg)         0.45           ENVIRONMENTAL           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           COMMUNICATIONS           Signal Range (lt)         29           Signal Range (lt)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           IR Remote Extension Support         No           R. S-232 Serial Extension Support         No           Consumer Electronics Control (CEC)         No           USB Extension Support         No           CONNECTIONS           Side A - Connector 1         R. 445 (FEMALE)           Side B - Connector 1         70 SLINK (FEMALE)           Side B - Connector 1         No           FETURES & SPECIFICATIONS           All-in-One Kit         No           Integrated/Removable Cable         No           Mounting Accessory Included         Yes           Bull-in Equalizer         Yes	Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457	
Unit Weight (fibs.)         1           Unit Weight (kg)         0.45           ENVIRONMENTAL           Operating Temperature Range         3° 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           COMMUNICATIONS           Signal Range (ft)         20           Signal Range (ft)         70           Transmission Distance         230 ft.           EIDIC Compatible         Yes           IR Remote Extension Support         No           RS-232 Serial Extension Support         No           Consumer Electronics Control (CEC)         No           Latency         Zero Latency           USB Extension Support         No           CONNECTIONS         Side A - Connector 1           Side B - Connector 1         70 SLINK (FEMALE)           Side B - Connector 1         70 SLINK (FEMALE)           Side B - Connector 1         No           FETURES & SPECIFICATIONS           All-in-One KI         No           Multi-One KI         No           Multi-Resolution Support         No           Multi-Resolution Support         Yes	Unit Dimensions (hwd / cm)	2.7 x 11.5 x 6.24	
Unit Weight (kg)         0.45           ENVIRONMENTAL           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           COMMUNICATIONS           Signal Range (ft)         230           Signal Range (m)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           IR Remote Extension Support         No           RS-232 Serial Extension Support         No           Consumer Electronics Control (CEC)         No           Supported         Zero Latency           USB Extension Support         No           CONNECTIONS           Side A - Connector 1         TOS (FEMALE)           Side A - Connector 1         TOS (FEMALE)           Side A - Connector 1         No           Restrict Removable Cable         No           Multi-Resolution Support	Unit Packaging Type	Box	
No.   Part   P	Unit Weight (lbs.)	1	
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           COMMUNICATIONS           Signal Range (ft.)         230           Signal Range (m)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           IR Remote Extension Support         No           RS-232 Serial Extension Support         No           Consumer Electronics Control (CEC) Supported         No           Latency         Zero Latency           USB Extension Support         No           CONNECTIONS           Side A - Connector 1         R.J46 (FEMALE)           Side B - Connector 1         TOSLINK (FEMALE)           Daisy-chainable / Cascadable         No           FEATURES & SPECIFICATIONS           All-in-One Kit         No           Midi-Resolution Support         No           Mounting Accessory Included         Yes           Bull-In Equalizer         Yes           Bull-In Equalizer         Yes           HDCP Specification         1.4; 2.2	Unit Weight (kg)	0.45	
Storage Temperature Range         5" to 122"F (-15" to 50"C)           Relative Humidity         0 to 85% RH, Non Condensing           COMMUNICATIONS           Signal Range (ft.)         230           Signal Range (m)         70           Transmission Distance         230 ft.           EDID Competible         Yes           IR Remote Extension Support         No           Consumer Electronics Control (CEC)         No           Latency         Zero Latency           USB Extension Support         No           CONNECTIONS           Side A - Connector 1         R.J45 (FEMALE)           Side B - Connector 1         TOSLINK (FEMALE)           Side B - Connector 1         TOSLINK (FEMALE)           Daisy-chainable / Cascadable         No           FEATURES & SPECIFICATIONS           All-in-One Kit         No           Integrated/Removable Cable         No           MST Support         No           Mounting Accessory Included         Yes           Multi-Resolution Support         Yes           Bull-In Equalizer         Yes           HDCP Specification         1.4; 2.2	ENVIRONMENTAL		
Relative Humidity         0 to 85% RH, Non Condensing           COMMUNICATIONS           Signal Range (ft.)         230           Signal Range (m)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           IR Remote Extension Support         No           Consumer Electronics Control (CEC) Supported         No           Consumer Electronics Control (CEC) Supported         No           CONNECTIONS           Side A - Connector 1         R.J45 (FEMALE)           Side A - Connector 1         TOSLINK (FEMALE)           Side B - Connector 1         TOSLINK (FEMALE)           Daisy-chainable / Cascadable         No           FEATURES & SPECIFICATIONS           All-in-One Kit         No           Mindregrated/Removable Cable         No           Monuting Accessory Included         Yes           Multi-Resolution Support         Yes           Bull-In Equalizer         Yes           HDCP Specification         14: 2.2	Operating Temperature Range	32° to 104°F (0° to 40°C)	
Signal Range (ft.) 230 Signal Range (m) 70 Transmission Distance 230 ft. EDID Compatible Yes RR Remote Extension Support No Consumer Electronics Control (CEC) Supported No Consumer Electronics Control (CEC) No Consumer Electro	Storage Temperature Range	5° to 122°F (-15° to 50°C)	
Signal Range (ft.)         230           Signal Range (m)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           IR Remote Extension Support         No           RS-232 Serial Extension Support         No           Consumer Electronics Control (CEC) Supported         No           Latency         Zero Latency           USB Extension Support         No           CONNECTIONS           Side A - Connector 1         RJ45 (FEMALE)           Side B - Connector 1         TOSLINK (FEMALE)           Daisy-chainable / Cascadable         No           FEATURES & SPECIFICATIONS           All-in-One Kit         No           Integrated/Removable Cable         No           MST Support         No           Mounting Accessory Included         Yes           Multi-Resolution Support         Yes           Built-In Equalizer         Yes           HDCP Specification         1.4; 2.2	Relative Humidity	0 to 85% RH, Non Condensing	
Signal Range (m)         70           Transmission Distance         230 ft.           EDID Compatible         Yes           IR Remote Extension Support         No           RS-232 Serial Extension Support         No           Consumer Electronics Control (CEC)         No           Supported         Zero Latency           USB Extension Support         No           CONNECTIONS           Side A - Connector 1         R.945 (FEMALE)           Side B - Connector 1         TOSLINK (FEMALE)           Daisy-chainable / Cascadable         No           FEATURES & SPECIFICATIONS           All-in-One Kit         No           Integrated/Removable Cable         No           MST Support         No           Mounting Accessory Included         Yes           Multi-Resolution Support         Yes           Bult-In Equalizer         Yes           HDCP Specification         1.4; 2.2	COMMUNICATIONS		
Transmission Distance 230 ft.  EDID Compatible Yes  IR Remote Extension Support No  RS-232 Serial Extension Support No  Consumer Electronics Control (CEC) Supported No  Latency Zero Latency USB Extension Support No  CONNECTIONS  Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 TOSLINK (FEMALE) Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No  MST Support No  Mounting Accessory Included Yes Multi-Resolution Support Yes Built-In Equalizer Yes Built-In Equalizer Yes HDCP Specification 1 1,4: 2.2	Signal Range (ft.)	230	
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IR Remote Extension Support No RS-232 Serial Extension Support No Consumer Electronics Control (CEC) No Latency Zero Latency USB Extension Support No  CONNECTIONS  Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 TOSLINK (FEMALE) Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes Multi-Resolution Support Yes Built-In Equalizer Yes HDCP Specification 1  No	Transmission Distance	230 ft.	
RS-232 Serial Extension Support No Consumer Electronics Control (CEC) Supported Latency Zero Latency USB Extension Support No  CONNECTIONS Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 TOSLINK (FEMALE) Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes Multi-Resolution Support Yes Built-In Equalizer Yes HDCP Specification 1 14; 2.2	EDID Compatible	Yes	
Consumer Electronics Control (CEC) Supported  Latency Zero Latency USB Extension Support No  CONNECTIONS  Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 TOSLINK (FEMALE)  Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit Integrated/Removable Cable No  MST Support No  Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer HDCP Specification  1 Ver Latency  And Accessory Individed No  No  MCDP Specification  1.4; 2.2	IR Remote Extension Support	No	
Supported No Latency Zero Latency  USB Extension Support No  CONNECTIONS  Side A - Connector 1 R.J45 (FEMALE) Side B - Connector 1 TOSLINK (FEMALE) Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes Multi-Resolution Support Yes Built-In Equalizer Yes HDCP Specification 1 1,4; 2.2	RS-232 Serial Extension Support	No	
USB Extension Support No  CONNECTIONS  Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 TOSLINK (FEMALE)  Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No  MST Support No Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	Consumer Electronics Control (CEC) Supported	No	
CONNECTIONS  Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 TOSLINK (FEMALE)  Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No  MST Support No Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	Latency	Zero Latency	
Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 TOSLINK (FEMALE)  Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No  MST Support No Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	USB Extension Support	No	
Side B - Connector 1 TOSLINK (FEMALE)  Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	CONNECTIONS		
Daisy-chainable / Cascadable No  FEATURES & SPECIFICATIONS  All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	Side A - Connector 1	RJ45 (FEMALE)	
All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes Multi-Resolution Support Yes Built-In Equalizer Yes HDCP Specification 1.4; 2.2	Side B - Connector 1	TOSLINK (FEMALE)	
All-in-One Kit No Integrated/Removable Cable No MST Support No Mounting Accessory Included Yes Multi-Resolution Support Yes Built-In Equalizer Yes HDCP Specification 1.4; 2.2	Daisy-chainable / Cascadable	No	
Integrated/Removable Cable No  MST Support No  Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	FEATURES & SPECIFICATIONS		
MST Support No  Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	All-in-One Kit	No	
Mounting Accessory Included Yes  Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	Integrated/Removable Cable	No	
Multi-Resolution Support Yes  Built-In Equalizer Yes  HDCP Specification 1.4; 2.2	MST Support	No	
Built-In Equalizer Yes HDCP Specification 1.4; 2.2	Mounting Accessory Included	Yes	
HDCP Specification 1.4; 2.2	Multi-Resolution Support	Yes	
	Built-In Equalizer	Yes	
Driver Required No	HDCP Specification	1.4; 2.2	
	Driver Required	No	



Recommended Category Cable	24AWG Cat6	
DIN Mountable	No	
STANDARDS & COMPLIANCE		
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA); UKCA	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	1-year limited warranty	



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