

DisplayPort to HDMI over Cat6 Extender Kit with KVM Support, 4K 60Hz, 4:4:4, USB, PoC, HDCP 2.2, up to 230 ft., TAA

MODEL NUMBER: **B127A-1A1-BDBH**



Transmitter/receiver kit extends a 4K signal via Cat6 cable from a DisplayPort source to an HDMI display up to 230 ft. away.

Features

DisplayPort to HDMI Extender Kit Ideal for Digital Signage in Schools and Lecture Halls

This complete transmitter and receiver system 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.

The B127A-1A1-BDBH extends 4K signals from a DisplayPort source device to an HDMI display up to 230 feet away via user-supplied Cat6 cabling. By adding a Tripp Lite B127A-010-H HDMI repeater or B127A-110-BH transceiver (sold separately) to the application, you can extend the signal up to 400 or 460 feet, respectively.

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

The B127A-1A1-BDBH 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. HDCP 2.2 compliance allows you to stream 4K Amazon and Netflix content with no complications. This extender kit 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.

Local HDMI Port on Transmitter Supports 4K @ 60 Hz Resolution

To monitor the video signal being extended to the receiver, connect a 4K display to the transmitter's local HDMI port with a user-supplied HDMI cable. This port does not support multi-resolution capabilities, so the connected monitor must also support 4K/60 Hz to function properly.

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

After you connect the included external power supply to either the transmitter or receiver, Power over Cable (PoC) technology powers the opposite unit over Cat6 cable. LEDs on both the transmitter and receiver 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 one unit where needed without worrying about finding a nearby AC outlet. **Dip Switch Extends Your Choice of Either USB or IR.**

The DIP switches on both the transmitter and receiver can be adjusted to let you choose from the USB 1.1 or bi-directional IR functions. Choose to either control the source device via keyboard and mouse or IR remote control from the display end of the installation. Only one function can be extended at a time.

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

The included transmitter and receiver units work right out of the box with no software required. Mounting hardware is included for installing both units on a wall, pole or 19-inch rack. Connect the transmitter to the source with a user-supplied DisplayPort cable (such as Tripp Lite's P580-Series). Then connect the

Highlights

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- Power over Cable (PoC) technology provides power to either end via Cat6 cable
- Transmitter's local port shows you the 4K image being displayed at the other end
- DIP switch selection allows bi-directional IR or USB function for controlling the source
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Applications

- Connect a laptop for a video or PowerPoint presentation in an auditorium or lecture hall, where the source device changes frequently
- 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
- Stream Netflix, Amazon Prime, Hulu and other home entertainment channels to your



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receiver to the display with a user-supplied HDMI cable (such as Tripp Lite's P568- or P569-Series). Finally, connect the two units with user-supplied Cat6 patch cable (such as Tripp Lite N202-Series).

TAA-Compliant for GSA Schedule Purchases

The B127A-1A1-BDBH is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

HDTV or projector

System Requirements

- Source device with DisplayPort output (Blu-ray player, PC, laptop)
- Display device with HDMI input (HDTV, projector, monitor)

Package Includes

- Transmitter
- Receiver
- 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

Specifications

OVERVIEW	
UPC Code	037332258656
Product Type	Cat5/Cat6 Extender Kit
Technology	Cat5/5e; Cat6; HDMI; POC; USB
Form Factor and Mounting Options	Box; Wall-mount
VIDEO	
Video Input	DISPLAYPORT (FEMALE)
Video Output	HDMI (FEMALE)
Number of Monitors Supported	2
Video Ports	DISPLAYPORT (FEMALE); HDMI (FEMALE)
Video Ports Detail	HDMI 2.0; HDCP 1.4; HDCP 2.2; DisplayPort 1.4
Max Supported Video Resolution	3840x2160 (4K @ 60Hz)
Max. Distance (Between any 2 Units)	230 ft.; 400 ft. with B127A-010-H signal booster



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Max Number of Ports (Entire Chain)	1
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
Transmitter Video Input	DisplayPort
Transmitter - Number of Video Outputs	1
Transmitter - Local Display Output	HDMI
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	170ft or 230ft
Recommended Cabling	Solid Wire Cat6 Cables (Tripp Lite's N202-Series)
Other Tripp Lite product used to extend range	B127A-010-H or B127A-110-BH
Max Supported Color Depth	36-bit True Color
HDR Support	No
3D Video Supported	Yes
Chroma Sub Sampling	4:4:4
AUDIO	
Audio Ports	DISPLAYPORT (FEMALE)
Audio Ports Detail	Supports pass-through of audio formats including LPCM2.0/5.1/7.1
Audio Input	Displayport
Audio Output	Toslink; HDMI
Audio Specification	Pass-through audio (LPCM 2.0/5.1/7.1)
INPUT	
Voltage Compatibility (VAC)	100; 110; 120; 125; 127; 200; 208; 220; 230; 240
External Power Supply Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
Bus Powered	No



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POWER	
Power Source	Transmitter or Receiver (Included)
Power Source Type	AC Adapter
AC Plug Type	NEMA 1-15P; BS1363; CEE 7/16 Schuko; AS/NZS 3112
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
External Power Supply Certifications	CE; FCC; CCC; GS; TUV; UL; cUL
Receiver Power Source	AC Adapter (Included); Power Over Cable
Power Over Cable (PoC) Support	Yes
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	TX: Green (Power); RJ45 Port: Green (Connection), Orange (Activity); RX: Green (Power), RJ45 Port: Green (Connection), Orange (Activity)
PHYSICAL	
Color	Black
Included Mounting Accessories	Wallmount
Material of Construction	Metal
Number of Displays	1
Rackmountable	Yes
Receiver Unit Dimensions (hwd / cm.)	2.7 x 11.5 x 6.24
Receiver Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Receiver Unit Weight (kg)	0.4536
Receiver Unit Weight (lbs.)	1
Transmitter Unit Dimensions (hwd / cm.)	2.7 x 11.5 x 6.24
Transmitter Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Transmitter Unit Weight (kg)	0.4536
Transmitter Unit Weight (lbs.)	1
Unit Packaging Type	Box
ENVIRONMENTAL	



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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
EDID Compatible	Yes
IR Remote Extension Support	Yes
Consumer Electronics Control (CEC) Supported	Yes
Latency	Zero-Latency
USB Extension Support	Yes
CONNECTIONS	
Side A - Connector 1	DISPLAYPORT (FEMALE)
Side A - Connector 2	HDMI (FEMALE)
Side A - Connector 3	RJ45 (FEMALE)
Side A - Connector 4	(2) 3.5MM (FEMALE); MICRO-USB B (FEMALE)
Side B - Connector 1	HDMI (FEMALE)
Side B - Connector 2	RJ45 (FEMALE)
Side B - Connector 3	(2) USB A (FEMALE)
Side B - Connector 4	TOSLINK (FEMALE); (2) 3.5MM (FEMALE)
FEATURES & SPECIFICATIONS	
Displayport Specification	1.2a
HDMI Specification	2.0
HDCP Specification	1.4; 2.2
USB Specification	USB 1.1 (up to 12 Mbps)
Driver Required	No
Recommended Category Cable	Cat6
Transmission Distance	230 ft.
Built-In Equalizer	No
SPECIAL FEATURES	
DIN Mountable	No
Integrated/Removable Cable	No



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MST Support	No
Included Mounting Accessory	Yes
Multi-Resolution Support	No
STANDARDS & COMPLIANCE	
Certifications	CE, FCC, REACH, RoHS
WARRANTY	
Product Warranty Period (Worldwide)	1-year limited warranty

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