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

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

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

Features

USB-C to HDMI Extender Kit Ideal for Digital Signage in Schools, Restaurants 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….or More
The B127A-1A1-BCBH extends 4K signals from a USB-C source device to an HDMI display up to 230 feet away via user-supplied Cat6 cabling. By adding a 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.**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.

Transmits Crystal-Clear 4K Video with Multi-Channel Audio and 4:4:4 Color
The B127A-1A1-BCBH 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.

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
- USB-C PD 3.0 port charges source device to avoid battery drain and untimely shutdowns
- 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 MacBook Pro, Windows laptop or notebook to a 4K display in a large conference room or meeting room for a video or PowerPoint presentation
- 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 HDTV or projector

System Requirements

- Source device with USB-C output (MacBook Pro, Windows laptop, tablet, smartphone)
- Display device with HDMI input (HDTV, projector, monitor)
- The B127A-1A1-BCBH is not compatible with DisplayPort Alt Mode or Thunderbolt 3 or Thunderbolt 4 ports

Package Includes

- Transmitter
- Receiver
- External power supply (Input: 100–240V, 50/60 Hz, 0.6A;

PD 3.0 Charging Port Powers the Source Device to Maintain a Clear Signal
The USB-C Power Delivery port provides up to 20V 5A (90W, with 10W dedicated to the unit's power reserve) for powering the connected source device when using an E-Mark USB-C cable (such as U040-C13-C-5A). With a non-E-Mark cable, the USB-C PD 3.0 port provides up to 20V 3A (50W, with 10W to the power reserve). The other USB-C port connects the transmitter to the source.

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

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

Output: 24V 1A)

- (4) International plug adapters (North America, Europe, U.K. and Australia)
- Mounting hardware
- Owner's manual

Specifications

OVERVIEW	
UPC Code	037332258663
Product Type	Extender Kit
Accessory Type	Extender Kit
Technology	Cat5/5e; Cat6; HDMI; POC
Host Connector	USB C (FEMALE)
Accessory Class	KVM Switch Accessories

VIDEO	
Video Input	USB C (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 (Both Local HDMI port and monitor connected to receiver unit via A/V over Cat6)
Max Supported Video Resolution	3840 x 2160 (4K @ 60Hz)
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
Maximum Distance with Booster	400

Transmitter Video Input	USB-C
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 with Booster	Yes
Range Extension using other Tripp Lite product	170 ft. or 230 ft.
Recommended Cabling	Solid Wire Cat6 Cables (Tripp Lite's N202-Series)
Extended Mode	Yes
Extended Mode Details	x1 HDMI (4K/60 Hz)
Mirror Mode	Yes
Mirror Mode Details	x1 HDMI (4K/60 Hz)
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
Maximum Signal Range (ft)	230
Maximum Signal Range (m)	70
DisplayPort Alt Mode	No

AUDIO	
Audio Ports	HDMI (FEMALE)
Audio Ports Details	Supports Pass-through of Audio format including LPCM2.0/5.1/7.1, and a built-in TOSLINK audio port on the receiver.
Audio Input	USB-C
Audio Output	Toslink; HDMI
Audio Specification	Pass-through audio (LPCM 2.0/5.1/7.1)

INPUT	
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 / 0.6A
AC Power Adapter Output Specs (V / A)	24V / 1A

AC Power Adapter Cord Length (ft.)	4.5
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	
Power Source Type	AC Adapter
AC Plug Type	NEMA 1-15P; BS1363; CEE 7/16 Schuko; AS/NZS 3112
Power Source	Transmitter or Receiver (Included)
Power Over Cable (PoC) Support	Yes
Receiver Power Source	AC Adapter (Included); Power Over Cable
USB Power Delivery (PD) Charging Support	Yes
USB Power Delivery (PD) Charging Specification	3.0; 100W; 20V/5A

USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	TX: Green (Power); RJ45 Port: Green (Connection), Orange (Activity); RX: Green (Power), RJ45 Port: Green (Connection), Orange (Activity)

CHARGING	
Charging Port Type	USB C (FEMALE)
Charging Ports	Supports 60W (20V 3A) Power to Host Computer; USB-C: 100W (20V 5A) Power Delivery (PD 3.0)

PHYSICAL	
Color	Black
Material of Construction	Metal
Included Mounting Accessories	Wallmount
Number of Displays	1
Form Factor/Mounting Options	Box; Wall-mount
Rackmountable	No
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 (lbs.)	1
Shipping Dimensions (hwd / in.)	2.17 x 10.24 x 6.46
Shipping Dimensions (hwd / cm)	5.51 x 26.01 x 16.41
Shipping Weight (lbs.)	1.45
Shipping Weight (kg)	0.66

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 (lbs.)	1
Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Unit Packaging Type	Box

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	Yes
RS-232 Serial Extension Support	No
Consumer Electronics Control (CEC) Supported	Yes
Latency	Zero-Latency
USB Extension Support	Yes

CONNECTIONS

Side A - Connector 1	(2) USB C (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 A - Connector 5	HDMI (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)
Side B - Connector 5	(2) USB A (FEMALE)
Daisy-chainable / Cascadable	No

FEATURES & SPECIFICATIONS

USB Specification	USB 1.1 (up to 12 Mbps)
MST Support	No
Mounting Accessory Included	Yes
Multi-Resolution Support	Yes
HDCP Specification	1.4; 2.2
Driver Required	No
Recommended Category Cable	Cat6
STANDARDS & COMPLIANCE	
External Power Supply Certifications	CE; FCC; CCC; GS; TUV; UL; cUL
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA); UKCA
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty