TRIPP LITE
SERIES

USB-C to 4K HDMI over Cat6 and KVM Extender Kit

Model:
B127A-1A1-BCBH

Purchased product
may differ from image.

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Package Contents

- Transmitter and Receiver Units
- External Power Supply (Input: 100-240V, 50/60 Hz, 0.6A; Output: 24V/1A)
- Plug Adapters: NEMA 1-15P (North America), CEE 7/16 Schuko (Europe), BS 1363 (UK) and AS/NZS 3112 (Australia)
- Mounting Hardware
- Owner's Manual

Optional Accessories
- N202-Series Cat6 24 AWG Solid-Wire Patch Cables
- P569-XXX-CERT or P568-XXX-2A Series High-Speed HDMI 2.0 Cables
- U420-Series USB-C 3.1 Gen 1/2 Cables

Product Features

- Extends 4K x 2K (3840 x 2160) @ 60 Hz video (as specified in HDMI 2.0) up to 230 ft. (70 m) from the source
- Built-in local HDMI port supports a 4K x 2K (3840 x 2160) @ 60 Hz signal
- USB Type-C PD 3.0 port provides up to 90W of charging power
- Remote receiver unit includes built-in equalization (EQ) control and auto EDID image adjustment
- Supports up to 7.1-channel surround sound audio
- Receiver includes a built-in Toslink port for audio extraction
- HDCP 2.2 compatible
- Plug and play—no software or drivers required
- Supports bi-directional IR and USB 1.1 via DIP switch selection
- Includes mounting hardware that enables both the local transmitter and remote receiver units to be wall-mounted, rack-mounted or pole-mounted

Disclaimer

Before installation, please check the following settings of your source(s) and TVs/monitor(s):

1. Set display to 60 Hz. Double-check factory settings, as default can be set to a lower frequency (Hz) than advertised.
2. Ensure the input setting of your monitor is set at HDMI 2.0. Some displays may have default setting at HDMI 1.4.
3. Check if the Ultra HD (UHD) Deep Color setting is enabled on your TV/monitor. Confirm with your TV/monitor manufacturer which HDMI ports support UHD Deep Color.
4. Check the USB/IR switch. The default setting is "IR".

Note: *To connect a local monitor to your installation, the UHD Deep Color setting may need to be disabled on your local TV/monitor (depending on make/model) to achieve 4K / 60 Hz resolution.*

Mounting Instructions

The B127A-1A1-BCBH includes mounting hardware that allows for a variety of mounting methods. The following images illustrate how the included mounting brackets can be attached for different installations.

Note: The model shown in the images below is for illustrative purposes only. Your product may vary by model number, size or port orientation. The mounting options for all over IP units are the same.
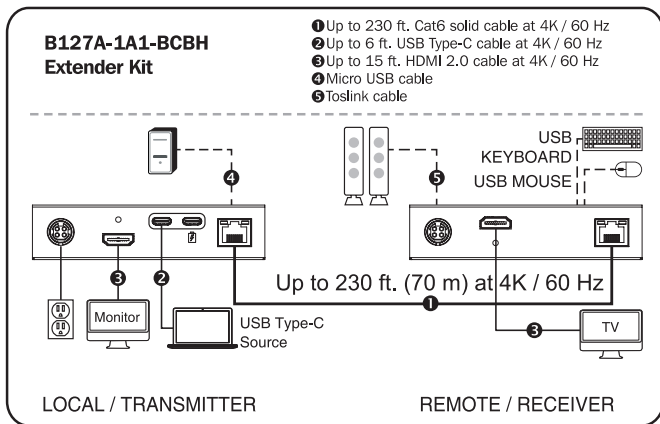
Wall-Mount

19" Rack-Mount   Pole-Mount

Installation

Notes:

- *Make sure all equipment in the installation—such as TVs, a Type-C notebook PC and the transmitter—is powered OFF.*

- *Test to ensure the entire installation works properly before pulling cables through ceilings/walls.*

- *To achieve maximum distance and performance, use 24 AWG solid wire Cat6 cable. Using stranded-wire Cat6 cable, or cable with a gauge (AWG) size higher than 24 AWG, will result in shorter extension distance. Higher gauge cabling, such as 26 AWG, has a more limited transmission capability than lower gauge cabling. N202-Series Cat6 cables are made with 24 AWG solid-wire cabling.*

- *External power is not required for remote receiver units due to Power-over-Cable (PoC) technology incorporated in the transmitter units.*

Installation

1. Using a USB 3.0 Type-C cable, connect the USB Type-C source to the INPUT port on the local transmitter unit.

2. **Optional:** Using an HDMI 2.0 cable (such as P569-XXX-CERT or P568-XXX-2A Series cables), connect a local monitor to the LOCALOUT port on the B127A-1A1-BCBH local transmitter unit.

3. Using Cat6 cable, connect the RJ45 port on the local transmitter unit to the RJ45 port on the remote receiver unit.

4. Using an HDMI 2.0 cable (such as P569-XXX-CERT or P568-XXX-2A Series cables), connect the remote receiver unit's HDMI port to a monitor.

5. Turn the power on to your connected TVs/monitors. The LOCAL (orange) LED will illuminate to indicate the local port is connected to a display.

6. Connect the external power supply to the local transmitter unit and plug it into an available wall outlet or (optional) a Surge Protector, Power Distribution Unit (PDU) or Uninterruptible Power Supply (UPS). The POWER (green) LED on the local transmitter unit will illuminate to indicate the unit is receiving power from the external power supply. The POWER (green) LED on the remote receiver unit will illuminate to indicate the unit is receiving power from the local transmitter unit through PoC technology.

7. Turn on the power to the USB Type-C source. The OUTPUT (orange) LED on the local transmitter unit will illuminate to indicate a signal is received from the source.

Installation

8. The (orange) RJ45 LED will illuminate on both the local transmitter unit and remote receiver unit to indicate a signal is received from source to display. The screen should now display on the connected monitor.

USB/IR/Toslink Controls

The extender kit provides the following functional controls:

- **USB 1.1** – One Micro-USB input at transmitter, dual USB-A outputs at receiver
- **Bi-Directional IR** – Dual 3.5 mm jacks at both the transmitter and receiver
- **Toslink** – Audio output at receiver

*Note: All of the following USB/IR/Toslink steps are optional. For port locations, refer to the diagram in the **Extender Kit Installation** section.*

IR Control

1. Connect a user-supplied IR-OUT cable to the transmitter unit's IR-OUT port. Place the sensor on the IR-OUT cable in an unobstructed area within clear view of the device being controlled. Then connect a user-supplied IR-IN cable to the receiver unit's IR-IN port. The IR-IN cable will communicate the desired command via the transmitter's IR-OUT cable.

Note: The IR-OUT cable receives the signal from the remote control and sends it to the device being controlled (e.g. Blu-ray™ player, etc.).

USB/IR/Toslink Controls

USB Control

1. With a user-supplied USB Micro-B cable (such as U050-XXX Series USB cable), connect to the transmitter's Micro-B port. Then connect a keyboard and mouse to the available USB-A ports on the receiver unit.

Toslink Control

1. With a user-supplied Toslink cable (such as A102-XXM Series cables), connect an audio receiver, compatible speaker(s) or other audio system equipped with a Toslink digital input.

Warranty

1-Year Limited Warranty

We warrant our products to be free from defects in materials and workmanship for a period of one (1) year from the date of initial purchase. Our obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. Visit Tripplite.Eaton.com/support/product-returns before sending any equipment back for repair. This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

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Warranty

WEEE Compliance Information for Customers and Recyclers (European Union)

Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Eaton, they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.

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