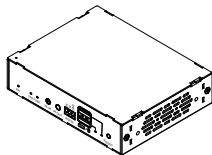
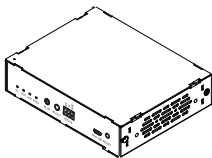


# Owner's Manual

## HDMI Over Cat6 Extender Kit, 4K/60 Hz

Model: B127E-1A1-HH



Este manual esta disponible en español en la página de  
Tripp Lite : [tripplite.com/support](http://tripplite.com/support)

Ce manuel est disponible en français sur le site Web de  
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## **Package Contents**

- Transmitter and Receiver Units
- External Power Supply Plug Adapters: AS/NZS 3112 Australia; BS 1363 U.K.; CEE 7/16 Schuko; NEMA 1-15P North America
- IR-Out Cable
- IR-In Cable
- (x2) RS-232 Adapters
- 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

## Product Features

- Extends a 4K (3840 x 2160) @ 60 Hz 4:4:4 signal up to 328 ft. (100 m) from the source
- Power over Cable (PoC) technology provides power to the receiver via Cat6 cable
- Additional HDMI port on the transmitter unit features multi-resolution support and allows the connection of a local monitor.
- Remote receiver unit features built-in equalization (EQ) control and auto EDID image adjustment
- Includes mounting hardware that allows both the local transmitter and remote receiver units to be wall-mounted, rack-mounted or pole-mounted
- Supports up to 7.1-channel surround sound audio
- HDMI 2.0 and HDCP 2.2 compatible
- Plug and play—no software or drivers required

## Disclaimer

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

1. Set to display 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.

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

## Mounting Instructions (select models only)

The B127E-1A1-HH 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 below images 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



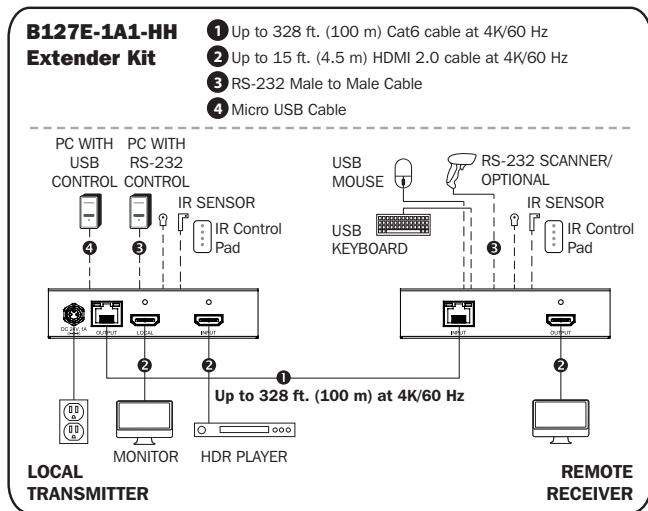
### Pole-mount



# Standard Extender Kit Installation

## Notes:

- 1) Test to ensure the entire installation works properly before pulling cables through ceilings/walls.
- 2) 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. All Tripp Lite N202-Series Cat6 cables are made with 24 AWG solid-wire cabling.
- 3) The installation diagram shows a B127E-1A1-HH unit.
- 4) External power is not required for remote receiver units due to Power-over-Cable (PoC) technology incorporated in the transmitter units.



## Standard Extender Kit Installation

1. Make sure all equipment in the installation—such as TVs, Blu-ray players and the transmitter—is powered OFF.
2. Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect the HDMI source to the INPUT port on the local transmitter unit.
3. **Optional:** Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect a local monitor to the LOCAL port on the B127E-1A1-HH local transmitter unit. Monitors with varying resolutions such as 4K 30Hz or 1080p can be connected without affecting the 4K 60Hz signal transmission.
4. Using Cat6 cable up to 328 ft. (100 m), connect the RJ45 port on the local transmitter unit to the RJ45 port on the remote receiver unit.
5. Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect the remote receiver unit's HDMI port to a monitor.
6. Turn the power ON to your connected TVs/monitors. The LOCAL (orange) LED will illuminate to indicate the local port has been connected to a display.
7. Connect the external power supply to the local transmitter unit and plug it into an available wall outlet or (optional) a Tripp Lite 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.
8. Turn ON the power to the HDMI source. The TX (orange) LED on the local transmitter unit illuminates to indicate a signal is being received from the source. The RX (orange) LED on the receiver unit illuminates to indicate a signal is being received from the source to the display.

## Standard Extender Kit Installation

9. The (orange) Link LEDs will illuminate on both local transmitter and remote receiver units to indicate a successful connection has been made between the two units. The screen should now display on the connected monitor.

## USB/IR/RS-232 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
- RS-232 – One 3-pin phoenix connector at both the transmitter and receiver

**(Optional)** Connect the computer's DB9 port to the transmitter unit's RS-232 serial port. The serial port is a 3-position phoenix connector for RS-232 (DB connector) pin 2, 3 and 7 connection. Connect your RS-232 device (e.g. barcode scanner) to the 3-position phoenix connector on the receiver unit.

**(Optional)** Connect the included 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 the included 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.).*

**(Optional)** With a user-supplied USB Micro-B cable (such as Tripp Lite 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.

# Warranty and Product Registration

## 1-Year Limited Warranty

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of one (1) year from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. 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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## WEEE Compliance Information for Tripp Lite 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 Tripp Lite 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

## WARNING

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.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Photos and illustrations may differ slightly from actual products.



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