

# Owner's Manual

## DisplayPort over Cat6 Extender and Receiver Kit, 4K

DisplayPort over Cat6 Model: B127A-1A1-BDBD

DisplayPort to HDMI over Cat6 Model: B127A-1A1-BDBH

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## Package Contents

- Transmitter and Receiver Units
- External Power Supply Plug Adapters: NEMA 1-15P North America; AS/NZS 3112 Australia; BS 1363 U.K.; CEE 7/16 Schuko
- 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
- P580-Series DisplayPort Cables with Latches

## Product Features

### B127A-1A1-BDBH

- DisplayPort 1.2a to HDMI over Cat6 Power over Cable (PoC) Extender Kit
- Extends a 4K x 2K (3840 x 2160) @ 60 Hz signal, as specified in HDMI 2.0, up to 230 ft. (70 m) from the source.
- Built-in local HDMI port supports 4K @ 60 Hz signal
- Remote receiver unit features built-in equalization (EQ) control and auto EDID image adjustment
- Supports up to 7.1-channel surround sound audio
- Receiver features built-in Toslink port for audio extraction function
- HDCP 2.2 compatible
- Plug-and-play - no software or drivers required
- Supports bi-directional IR and USB 1.1 function by 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

## Product Features

### **B127A-1A1-BDBD**

- DisplayPort 1.2a over Cat6 extender and receiver kit with Power over Cable (PoC)
- Extends a 4K x 2K (3840 x 2160) @ 30 Hz signal up to 230 ft. (70 m) from the source
- Built-in local HDMI port supports 4K x 2K (3840 x 2160) @ 30 Hz resolutions
- Remote receiver unit features built-in equalization (EQ) control and auto EDID image adjustment
- Supports up to 7.1-channel surround sound audio
- Receiver features a Toslink port for audio extraction
- Supports DisplayPort 1.2a and is HDCP 2.2 compatible
- Plug-and-play - no software or drivers required
- Supports bi-directional IR and USB 1.1 function by 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, check the following settings of your source(s) and TV/monitor(s):

1. Set to display 60 Hz. Double-check factory settings, in case the default is 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.

**Note:** *This is only important for the B127A-1A1-BDBH model; the B127A-1A1-BDBD will need DP 1.2a settings.*

3. Verify your monitor has the HDR feature enabled. Some displays may have this feature disabled as a factory setting.
4. 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:** *Only for the B127A-1A1-BDBH model.*

5. Check the USB/IR DIP switch, as the default setting is set to "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 the make/model) to achieve 4K/60 Hz resolution.*

## Mounting Instructions

The B127A-1A1-BDBH and B127A-1A1-BDBD include 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

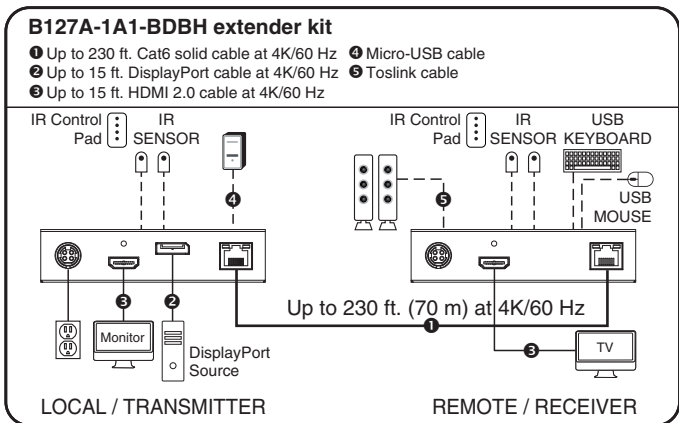


# Standard Extender Kit Installation

## Model B127A-1A1-BDBH

### 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 B127A-1A1-BDBH unit.
- 4) External power is not required for remote receiver units due to Power over Cable (PoC) technology incorporated in the transmitter units.



1. Make sure all equipment in the installation—such as monitors, the DisplayPort source and the transmitter—is powered OFF.

## Standard Extender Kit Installation

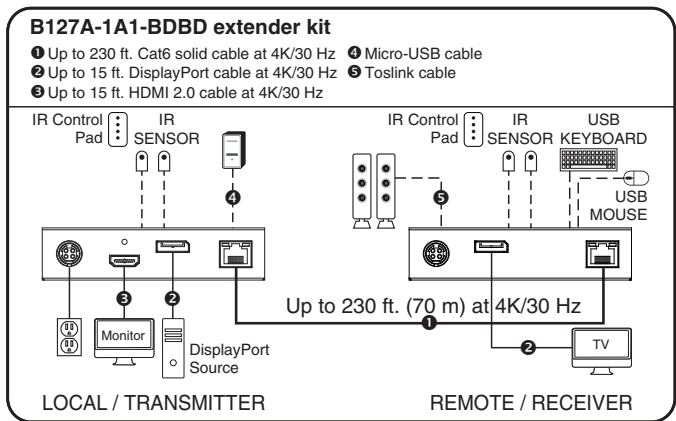
- Using a DisplayPort cable, connect the DisplayPort source to the INPUT port on the local transmitter unit.
- Optional for B127A-1A1-BDBH:** Using an HDMI cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect a local monitor to the LOCALOUT port on the B127A-1A1-BDBH local transmitter unit.
- Using Cat6 cable, connect the RJ45 port on the local transmitter unit to the RJ45 port on the remote receiver unit.
- Using an HDMI 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.
- 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.
- Connect the external power supply to the local transmitter unit and plug it into an available wall outlet or (optional) 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.  
***Note:** The external power adapter can be plugged into either the transmitter or receiver unit.*
- Turn on the power to the DisplayPort source. The OUTPUT (orange) LED on the local transmitter unit will illuminate to indicate a signal is being received from the source.
- The (orange) RJ45 LED will illuminate on both the local transmitter and remote receiver units to indicate a signal is being received from the source to display. The screen should now display on the connected monitor.

# Standard Extender Kit Installation

## Model B127A-1A1-BDBD

### 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 B127A-1A1-BDBD unit.
- 4) External power is not required for remote receiver units due to Power over Cable (PoC) technology incorporated in the transmitter units.



1. Make sure all equipment in the installation—such as monitors, the DisplayPort source and the transmitter—is powered OFF.



## Standard Extender Kit Installation

- Using a DisplayPort cable, connect the DisplayPort source to the INPUT port on the local transmitter unit.
- Using an HDMI cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect a local monitor to the LOCALOUT port on the B127A-1A1-BDBD local transmitter unit.
- Using Cat6 cable, connect the RJ45 port on the local transmitter unit to the RJ45 port on the remote receiver unit.
- Using a DisplayPort cable, connect the remote receiver unit's DisplayPort port to a monitor.
- 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.
- Connect the external power supply to the local transmitter unit and plug it into an available wall outlet or (optional) 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.
- Turn on the power to the DisplayPort source. The OUTPUT (orange) LED on the local transmitter unit will illuminate to indicate a signal is being received from the source.
- The (orange) RJ45 LED will illuminate on both the local transmitter and remote receiver units to indicate a signal is being received from the 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 USB Micro-B input at transmitter, dual USB-A outputs at receiver
- Bi-Directional IR – Dual 3.5 mm jacks at both the transmitter and receiver
- Toslink output at receiver and transceiver

**(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.

**(Optional)** *Connect a Toslink cable (such as Tripp Lite's A102-XXM Series cables) to a set of speakers, an audio receiver or other audio system equipped with Toslink digital outputs.*

# 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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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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