

Owner's Manual

4K/60 HDMI over Cat6 Extenders and Extender/Splitters

Extender Kit Models: B127-1A1-HH, B127-002-2H2,
B127-004-H4H and B127-2A1-HH

Local Unit Models: B127-002-H, B127-004-H and B127-008-H

Remote Unit Models: B127-100-H, B127-100-H-SR
and B127-200-H

Este manual esta disponible en español en la página de
Tripp Lite : www.tripplite.com/support

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Package Contents

	B127-1A1-HH	B127-2A1-HH	B127-002-2H2	B127-004-H4H	B127-002-H	B127-004-H	B127-008-H	B127-100-H	B127-200-H	B127-100-H-SR
Local Unit (L), Remote Unit (R) or Both (B)	B	B	B	B	L	L	L	R	R	R
External Power Supplies (0 or 1)	1	1	1	1	1	1	1	0	0	0
Mounting Hardware	Y	Y	Y	Y	Y	Y	Y	Y	Y	N

Product Features

All

- Support a maximum video resolution of 4K (3840 x 2160) @ 60 Hz with 4:4:4 Chroma Subsampling
- Support up to 7.1-channel surround sound audio
- HDMI 2.0, HDCP 2.2 and HDR compatible
- Plug and play—no software or drivers required

Product Features

B127-1A1-HH

- HDMI over Cat6 Power-over-Cable (PoC) Extender Kit
- Extends a 4K (3840 x 2160) @ 60 Hz signal up to 125 ft. (38 m) from the source
- Built-in local HDMI port supports multi-resolution technology, enabling the connection of local monitors of various resolutions without affecting the extended 4K @ 60 Hz signal to connected 4K-compatible displays
- Remote receiver unit features built-in equalization (EQ) control and auto EDID image adjustment
- Includes mounting hardware that enables both the local transmitter and remote receiver units to be wall-mounted, rack-mounted or pole-mounted

B127-2A1-HH

- HDMI over Cat6 Power-over-Cable (PoC) Extender Kit
- Extends a 4K (3840 x 2160) @ 60 Hz signal up to 125 ft. (38 m) from the source
- Built-in local HDMI port supports multi-resolution technology, enabling the connection of local monitors of various resolutions without affecting the extended 4K @ 60 Hz signal to connected 4K-compatible displays
- Remote receiver unit features two HDMI output ports with built-in equalization (EQ) control and auto EDID image adjustment
- Includes mounting hardware that enables both the local transmitter and remote receiver units to be wall-mounted, rack-mounted or pole-mounted

Product Features

B127-002-2H2

- HDMI over Cat6 Power-over-Cable (PoC) 2-Port Splitter/Extender Kit
- Extends a 4K (3840 x 2160) @ 60 Hz signal up to 125 ft. (38 m) from the source
- Remote receiver unit features built-in equalization (EQ) control and auto EDID image adjustment
- Kit includes a 2-Port Splitter Extender and two Remote Receivers
- Includes mounting hardware that allows unit to be wall-mounted, rack-mounted or pole-mounted

B127-004-H4H

- HDMI over Cat6 Power-over-Cable (PoC) 4-Port Splitter/Extender Kit
- Extends a 4K (3840 x 2160) @ 60 Hz signal up to 125 ft. (38 m) from the source
- Remote receiver unit features built-in equalization (EQ) control and auto EDID image adjustment
- Kit includes a 4-Port Splitter Extender and four Remote Receivers
- Includes mounting hardware that allows unit to be wall-mounted, rack-mounted or pole-mounted
- Built-in local HDMI port supports multi-resolution technology, enabling the connection of local monitors of various resolutions without affecting the extended 4K @ 60 Hz signal to connected 4K-compatible displays

B127-002-H

- 2-Port HDMI over Cat6 Extender/Splitter Local Transmitter Unit
- Splits an HDMI signal into two
- Works with remote receiver units to extend an HDMI signal past the 15 ft. (4.5 m) distance limitation

Product Features

- Includes mounting hardware that allows unit to be wall-mounted, rack-mounted or pole-mounted

B127-004-H

- 4-Port HDMI over Cat6 Extender/Splitter Local Transmitter Unit
- Splits an HDMI signal into four
- Built-in local HDMI port supports multi-resolution technology, enabling the connection of local monitors of various resolutions without affecting the extended 4K @ 60 Hz signal to connected 4K-compatible displays; this port can also be used to daisy-chain additional B127-004-H units (up to three units can be daisy-chained together)
- Works with remote receiver units to extend an HDMI signal past the 15 ft. (4.5 m) distance limitation
- Includes mounting hardware that allows unit to be wall-mounted, rack-mounted or pole-mounted

B127-008-H

- 8-Port HDMI over Cat6 Extender/Splitter Local Transmitter Unit
- Splits an HDMI signal into eight
- Built-in local HDMI port supports multi-resolution technology, enabling the connection of local monitors of various resolutions without affecting the extended 4K @ 60 Hz signal to connected 4K-compatible displays; this port can also be used to daisy-chain additional B127-008-H units (up to three units can be daisy-chained together)
- Works with remote receiver units to extend an HDMI signal past the 15 ft. (4.5 m) distance limitation
- Includes mounting hardware that allows unit to be wall-mounted, rack-mounted or pole-mounted

Product Features

B127-100-H

- HDMI over Cat6 Power-over-Cable (PoC) Remote Receiver Unit
- Works with B127-002-H and B127-004-H extender/splitters to extend a 4K/60 Hz signal up to 125 ft. (38 m) from the source
- Built-in equalization (EQ) and EDID allows control for auto image adjustment
- Includes mounting hardware that allows unit to be wall-mounted, rack-mounted or pole-mounted

B127-200-H

- HDMI over Cat6 Power-over-Cable (PoC) Remote Receiver Unit
- Works with B127-002-H and B127-004-H extender/splitter units to extend a 4K @ 60 Hz signal up to 125 ft. (38 m) from the source
- Built-in equalization (EQ) and EDID allows control for auto image adjustment
- Includes mounting hardware that enables unit to be wall-mounted, rack-mounted or pole-mounted
- Supports up to two HDMI Displays

B127-100-H-SR

- HDMI over Cat6 Power-over-Cable (PoC) Short Distance Remote Receiver Unit
- Works with B127-002-H and B127-004-H extender/splitters to extend a 4K/60 Hz signal up to 50 ft. (15 m) from the source
- Built-in equalization (EQ) and EDID allows control for auto image adjustment

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

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

Mounting Instructions (select models only)

The B127-1A1-HH, B127-2A1-HH, B127-002-2H2, B127-004-H4H, B127-002-H, B127-004-H, B127-008-H, B127-100H and B127-200H include 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

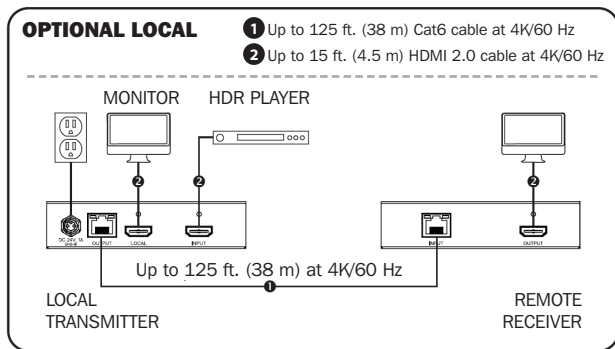


Standard Extender Kit Installation

Installation Instructions for B127-1A1-HH

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 B127-1A1-HH unit.
- 4) External power is not required for remote receiver units due to Power-over-Cable (PoC) technology incorporated in the transmitter units.



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.

Standard Extender Kit Installation

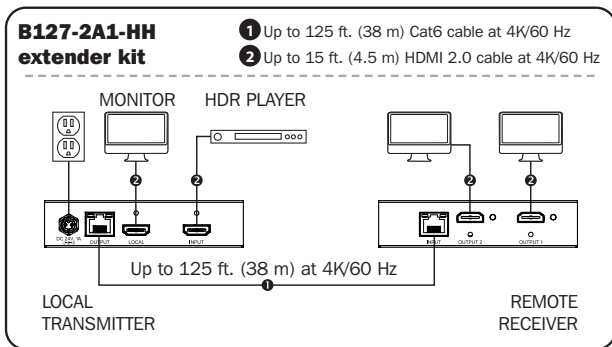
- 3. Optional for B127-1A1-HH:** Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect a local monitor to the LOCALOUT port on the B127-1A1-HH local transmitter unit.
Note: Monitors with lower resolutions such as 1080p or 4K @ 30 Hz can be connected to the local HDMI port without affecting the 4K @ 60 Hz signal.
- 4.** Using Cat6 cable, 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 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 OUTPUT (orange) LED on the local transmitter unit illuminates to indicate a signal is being received from the source.
- 9.** The (orange) RJ45 LED will illuminate on both local transmitter and remote receiver units to indicate a signal is being received from source to display. The screen should now display on the connected monitor.

Standard Extender/Splitter Installation

Installation Instructions for B127-2A1-HH

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 B127-2A1-HH unit.
- 4) External power is not required for remote receiver units because of Power-over-Cable (PoC) technology incorporated in the transmitter units.



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.

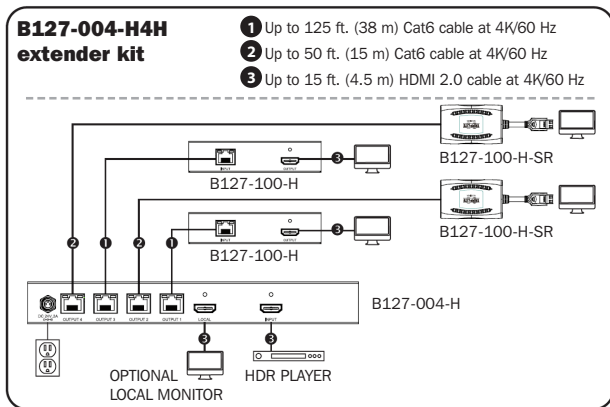
Standard Extender/Splitter Installation

- 3. Optional for B127-2A1-HH:** 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 LOCALOUT port on the B127-2A1-HH local transmitter unit.
Note: Monitors with varying resolutions like 1080p or 4K 30 Hz can be connected to the local HDMI port without affecting the 4K @ 60 Hz signal.
- 4.** Using Cat6 cable, 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 one of the remote receiver unit's HDMI ports to a monitor/TV and the other to a second monitor/TV.
- 6.** Turn the power on to the 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 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 OUTPUT (orange) LED on the local transmitter unit illuminates to indicate a signal is being received from the source.
- 9.** The (orange) RJ45 LED will illuminate on both local transmitter and remote receiver units to indicate a signal is being received from source to display. The screen should now display on the connected monitor(s).

Standard Extender/Splitter 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 cables are made with 24 AWG solid-wire cabling.
- 3) The installation diagram shows the B127-004-H local transmitter unit. The B127-002-H installation is the same, except there are only two remote ports and no local monitor port. The B127-008-H features eight remote ports and one local monitor port.
- 4) External power is not required for the B127-100-H, B127-100-H-SR and B127-200-H units.
- 5) These installation instructions can be used for the B127-002-2H2 and B127-004-H4H extender kits.



Standard Extender/Splitter 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 B127-002-H or B127-004-H units.
3. **Optional for B127-004-H and B127-008H:** Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect an HDMI monitor to the LOCAL port on the B127-004-H or B127-008H unit.

***Note:** Monitors with varying resolutions like 1080p or 4K 30 Hz can be connected to the local HDMI port without affecting the 4K @ 60 Hz signal.*

4. Using Cat6 cable, connect one of the RJ45 output ports on the local transmitter unit to the RJ45 input port on a B127-100-H (up to 125 ft./38 m), B127-100-H-SR (up to 50 ft./15 m) or B127-200-H (up to 125 ft./38 m) remote receiver unit.
5. Repeat step 5 for each additional remote unit being connected.
6. Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables). Connect the B127-100-H, B127-100-H-SR or B127-200-H to a display.
7. Turn on the power to all your connected TVs or monitors. The LOCAL (orange) LED will illuminate to indicate the port has been connected to a display.
8. 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 will illuminate to indicate the unit is receiving power from the external power supply. On the B127-100-H and B127-200-H, the POWER (green) LED will illuminate to indicate the unit is receiving power from the extender/splitter. On the B127-100-H-SR, the (green) LED next to the RJ45

Standard Extender/Splitter Installation

port will illuminate to indicate the unit is receiving power from the extender/splitter.

9. Turn on the power to the HDMI source. The (orange) RJ45 LEDs will illuminate on the B127-002-H, B127-004-H and B127-008H to indicate the unit is receiving a signal from the source. Additionally, the OUTPUT (orange) LED will illuminate for each port signal connection.
10. The RJ45 (orange) LEDs on the B127-100-H / B127-200-H and orange LED on the B127-100-H-SR will illuminate to indicate a signal is being received from the extender/splitter. The screen should now display on the connected monitors.

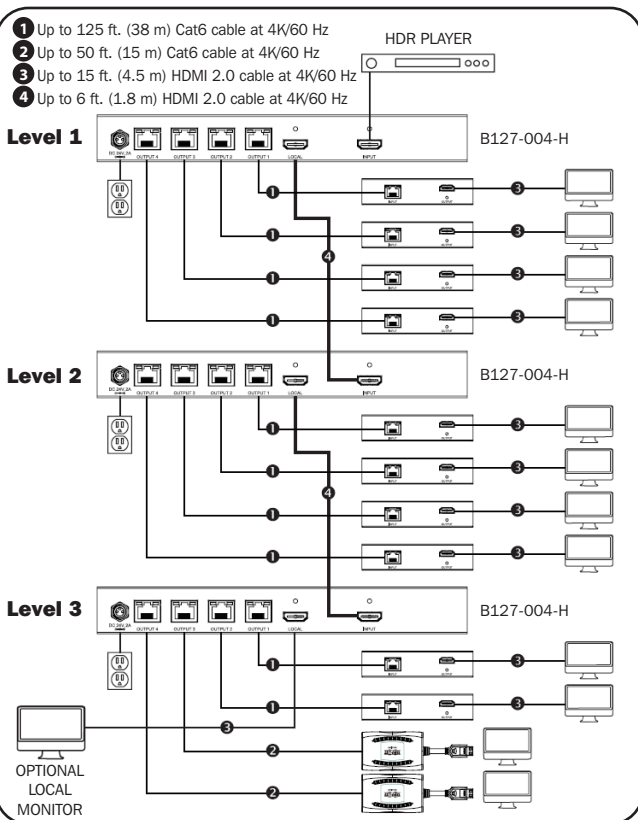
Splitter Daisy-Chain Installation (B127-004-H and B127-008H only)

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 cables are made with 24 AWG solid-wire cabling.*
- 3) *Using the B127-100-H or the B127-200-H, a 4K/60 Hz signal can be extended up to 125 ft. (38 m) from the source. Using a B127-100-H-SR, a 4K/60 Hz signal can be extended up to 50 ft. (15 m) from the source.*
- 4) *The B127-200-H supports two HDMI output ports.*

Splitter Daisy-Chain Installation (B127-004-H and B127-008H only)

- 1 Up to 125 ft. (38 m) Cat6 cable at 4K/60 Hz
- 2 Up to 50 ft. (15 m) Cat6 cable at 4K/60 Hz
- 3 Up to 15 ft. (4.5 m) HDMI 2.0 cable at 4K/60 Hz
- 4 Up to 6 ft. (1.8 m) HDMI 2.0 cable at 4K/60 Hz



Splitter Daisy-Chain Installation

(B127-004-H and B127-008H only)

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 B127-004-H or B127-008H unit.
3. Using a 6 ft./1.83 m HDMI 2.0 cable (such as Tripp Lite P569-006-CERT or P568-006-2A cables), connect the LOCAL port on the B127-004-H or B127-008H to the INPUT port on a second B127-004-H or B127-008H unit.
4. Repeat step 3 if connecting a third B127-004-H or B127-008H unit.
Note: *Only three levels of splitters can be cascaded.*
5. **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 HDMI port of the last B127-004-H unit in the installation.
Note: *Monitors with varying resolutions like 1080p or 4K 30 Hz can be connected to the local HDMI port without affecting the 4K @ 60 Hz signal.*
6. Using Cat6 cable, connect one of the RJ45 output ports on the local transmitter units to the RJ45 input port on a B127-100-H, B127-200-H or B127-100-H-SR remote receiver unit.
7. Repeat step 6 for each additional remote unit being connected.
8. Using an HDMI 2.0 cable (such as Tripp Lite P569-XXX-CERT or P568-XXX-2A Series cables), connect the B127-100-H, B127-200-H or B127-100-H-SR to a display.
9. Repeat step 8 for each additional monitor you are connecting to a remote receiver unit.
10. Turn on the power to all your connected displays.

Splitter Daisy-Chain Installation

(B127-004-H and B127-008H only)

- 11.** 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 will illuminate to indicate the unit is receiving power from the external power supply.
- 12.** Repeat step 11 for each additional B127-004-H or B127-008H unit in the daisy chain.
- 13. B127-000-H, B127-100-H-SR and B127-200-H:** The green and orange LEDs will illuminate, with the green LED indicating the unit is receiving power from the extender/splitter, and the orange LED indicating the unit is connected to a powered ON local unit via Cat6 cable.
- 14.** Turn on the power to the HDMI source. The orange RJ45 LEDs will illuminate on the B127-004-H or B127-008H to indicate the unit is receiving a signal from the source. The screen should now display on the connected monitors.

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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* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

Warranty and Product Registration

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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