

Owner's Manual

HDMI over Cat5/Cat6 Active Extender with Built-in 4K Upscaler

Models: B126-1A0-SC4K and B126-1A1-SC4K

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Product Features

- Built-in 4K Upscaler converts a 1080p @ 24 Hz signal to 4K x 2K @ 24 Hz and extends it up to 125 ft. from the source
- Converts 480p and 720p signals to 1080p
- B126-1A0-SC4K works with Tripp Lite's B126-002 or B126-004 extender/splitter transmitter unit (for details on the B126-002 or B126-004, reference the owner's manual included with it)
- Additional HDMI port (on B126-1A1-SC4K only) allows for connection of a local monitor
- 3D and HDCP compliant
- Built-in Equalization Control for adjusting the video image
- Supports stereo and 7.1 channel surround sound audio
- Compatible with all operating systems
- Includes mounting hardware to allow both transmitter and receiver units to be wall-mounted, rack-mounted or pole-mounted
- Plug-and-play; no software or drivers required

Package Includes

B126-1A1-SC4K:

- Both Transmitter and Receiver Units
- (x2) External Power Supplies with NEMA 1-15P Plugs (Input: 100-240V, 50/60 Hz, 0.5A; Output: 5V, 2A)
- (x2) Mounting Hardware Kits
- Screwdriver for Equalization Adjustment
- Owner's Manual

B126-1A0-SC4K:

- Receiver Unit Only
- External Power Supply with NEMA 1-15P Plug (Input: 100-240V, 50/60 Hz, 0.5A; Output: 5V, 2A)
- Mounting Hardware Kit
- Screwdriver for Equalization Adjustment
- Owner's Manual

Optional Accessories

- N202-Series Cat6 24 AWG, Solid Wire Patch Cables
- P568-Series High-Speed HDMI Cables
- P569-XXX-LOCK High-Speed HDMI Cables with Ethernet and Locking Connectors; available in lengths from 6 to 15 ft.; XXX refers to the length (e.g. 006 = 6 ft., 010 = 10 ft., 015 = 15 ft.)
- B110-INT International AC Adapter

System Requirements

- Computer, Blu-ray™ player or other source with HDMI output port
- 4K-capable display with HDMI port

Mounting Instructions

The B126-1A1-SC4K and B126-1A0-SC4K each include mounting hardware for a variety of mounting options. The following images show the different ways the included mounting brackets can be attached.

Wallmount 1



Wallmount 2



19" Rackmount



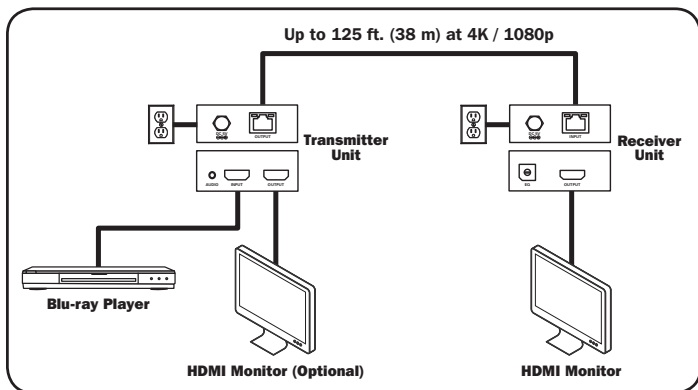
Pole Mount



B126-1A1-SC4K Extender Kit Installation

Notes:

- Test to ensure the entire installation works properly before pulling cables through ceilings/walls.
- To achieve maximum distance and performance, 24 AWG solid wire Cat5e/6 cable must be used. The use of stranded wire Cat5e/6 cable or cable with a gauge size higher than 24 AWG will result in shorter extension distance. All Tripp Lite N202-Series Cat6 cables are made with 24 AWG solid wire cabling.
- Ensure the power to all devices being connected is turned off prior to installation.



1. Prior to installation, the HDMI refresh rate must be set to 24 Hz. This can be done by accessing the settings in the menu of the Blu-ray player or other HDMI source. Ensure the 24p output and 1080p resolutions setting are turned on. If you are using 60 Hz, the 4K Upscale feature will not work.
2. Connect the HDMI source to the HDMI input port on the transmitter unit.
3. **Optional:** Connect an HDMI display to the Output port on the

B126-1A1-SC4K Extender Kit Installation

B126-1A1-SC4K transmitter using a Tripp Lite P569-XXX-LOCK High-Speed HDMI Cable with Ethernet and Locking Connector. This cable is available in lengths from 6 to 15 ft.; XXX refers to the length (e.g. 006 = 6 ft., 010 = 10 ft., 015 = 15 ft.)

4. Connect the external power supply to the transmitter unit and plug it into a Tripp Lite Surge Protector, Uninterruptible Power Supply (UPS) or Power Distribution Unit (PDU).
5. Connect the RJ45 port on the transmitter to the RJ45 port on the receiver using Cat5e/6 cable.

Note: see the installation diagrams for maximum extension distance and video resolutions.

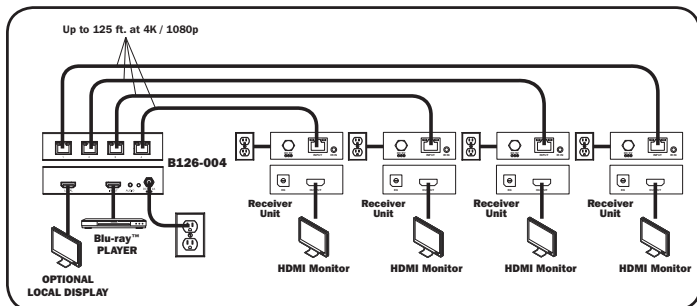
6. Connect the HDMI display to the HDMI Output port on the receiver using a Tripp Lite P569-XXX-LOCK High-Speed HDMI Cable with Ethernet and Locking Connector.
7. Connect the external power supply to the receiver and plug it into a Tripp Lite Surge Protector, Uninterruptible Power Supply (UPS) or Power Distribution Unit (PDU).
8. Turn on the power to the HDMI source and the HDMI display. The green RJ45 LEDs on the transmitter and receiver units will illuminate to indicate they are receiving power. The orange RJ45 LEDs on the transmitter and receiver units will illuminate to indicate they are receiving a signal from the source.
9. If necessary, adjust the Equalization Control on the remote unit to improve the video image.

Note: An improper Equalization setting can cause the monitor to display no picture. Try each Equalization setting until an acceptable image is displayed.

B126-1A0-SC4K Receiver Installation

Notes:

- Test to ensure the entire installation works properly before pulling cables through ceilings/walls.
- To achieve maximum distance and performance, 24 AWG solid wire Cat5e/6 cable must be used. The use of stranded wire Cat5e/6 cable or cable with a gauge size higher than 24 AWG will result in shorter extension distance. All Tripp Lite N202-Series Cat6 cables are made with 24 AWG solid wire cabling.
- Ensure the power to all devices being connected is turned off prior to installation.
- The installation diagram below shows the B126-004 local transmitter unit. The B126-002 installation is the same, except there are only two remote ports and no local monitor port.



1. Prior to installation, make sure your HDMI refresh rate is set to 24 Hz. This can be done by accessing the settings in the menu of the Blu-ray player or other HDMI source. Ensure the 24p output and 1080p resolutions setting are turned on. If you are using 60 Hz, the 4K Upscale feature will not work.
2. Connect the HDMI source to the HDMI input port on the B126-002 or B126-004 using a Tripp Lite P569-XXX-LOCK High-Speed HDMI Cable with Ethernet and Locking Connector. This cable is available in lengths from 6 to 15 ft.; XXX refers to the length (e.g. 006 = 6 ft., 010 = 10 ft., 015 = 15 ft.).

B126-1A0-SC4K Receiver Installation

- 3. Optional for B126-004:** Connect an HDMI monitor to the Local port on the B126-004 using a P569-XXX-LOCK High-Speed HDMI Cable with Ethernet and Locking Connector.
- 4.** Connect the external power supply to the local unit and plug it into a Tripp Lite Surge Protector, Uninterruptible Power Supply (UPS) or Power Distribution Unit (PDU).
- 5.** Connect one of the RJ45 output ports on the local unit to the RJ45 port on the B126-1A0-SC4K using Cat5e/6 cable.
- 6.** Connect the B126-1A0-SC4K to a monitor using a P569-XXX-LOCK High-Speed HDMI Cable with Ethernet and Locking Connector.
- 7.** Connect the external power supply to the B126-1A0-SC4K and plug it into a Tripp Lite Surge Protector, Uninterruptible Power Supply (UPS) or Power Distribution Unit (PDU).
- 8.** Repeat steps 5 through 7 for each additional B126-1A0-SC4K in the installation.
- 9.** Turn on the power to the HDMI source and HDMI displays. The green RJ45 LEDs on the unit will illuminate to indicate they are receiving power. The orange RJ45 LEDs on the unit will illuminate to indicate they are receiving a signal from the source. The screen should now be displayed on the connected monitors.
- 10.** If necessary, use the Equalization Control on the B126-1A0-SC4K to adjust the video image.

Note: An improper Equalization setting can cause the monitor to display no picture. Try each Equalization setting until an acceptable image is displayed.

Troubleshooting

If you are unable to get an acceptable image after following the installation instructions, try the troubleshooting tips below:

1. Are the external power supplies that came with the product connected and plugged into a working power source?

For the product to function properly, the transmitter and receiver must be connected to and receiving power from an external power supply.

2. Was the power to the HDMI source turned off prior to installation?

If not, restart.

3. What resolution are you trying to reach?

See the **Product Features** and **Installation** sections in this manual for details on maximum distance and resolution. The shorter the extension distance, the higher the resolution you will be able to obtain. If you are not able to get an acceptable image, try lowering the computer's video resolution or adjusting the refresh rate.

4. Why is 4K not being displayed?

Prior to installation, make sure the HDMI source refresh rate is at 24 Hz. This can be done by accessing the settings in the menu of the Blu-ray player or other HDMI source. Ensure the 24p output and 1080p resolutions settings are turned on. If you are using 60 Hz, the 4K Upscale feature will not work.

5. What type of cabling are you using?

Inferior cabling can result in poor performance, so it is important to use cables that can support the video resolution you are trying to obtain. To achieve maximum distance and resolution, 24 AWG solid-wire UTP cable (such as Tripp Lite's N202-Series cables) must be used.

6. Test your cables to ensure they are working properly.

For example, connect your Cat5e/6 cable between a computer and a network to verify that it establishes a network connection.

Troubleshooting

7. Do you have any patch panels or other devices in between the transmitter and receiver units?

Tripp Lite's HDMI over Cat5 extender kits were designed to be connected directly from the transmitter to the receiver via UTP cable. The more connection points that are between the source and the remote monitor, the more likely signal degradation will occur, causing poor performance. If you have a patch panel or other device in between, it should be removed from the installation.

8. Do you have a splitter, switch or other device in between the computer and transmitter, or in between the receiver and display?

Tripp Lite's HDMI over Cat5 extender kit was designed for the transmitter to connect directly with the source computer, and for the receiver to connect directly to the display. If you have a splitter, switch or other device in between, it should be removed from the installation.

9. Check the cabling for any damage that may have occurred during installation.

If a cable connector is loosened from being pulled through ceilings/walls or if the cable jacket is damaged causing wiring to be exposed, you will not be able to achieve maximum performance.

10. Are the transmitter and/or receiver units located in an area that exposes them to elevated temperatures?

If the product overheats, it will not function properly.

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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Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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Product Registration

Visit www.tripplite.com/warranty today to register your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

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

FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

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

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. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.



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