

Owner's Manual

4K/60 HDMI over Fiber Extender Kit

Model: B127F-1A1-MM-HH

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

Ce manuel est disponible en français sur le site Web de Tripp Lite :
www.tripplite.com/support

Русскоязычная версия настоящего руководства представлена на веб-сайте компании Tripp Lite по адресу: www.tripplite.com/support

WARRANTY REGISTRATION

Register your product today and be automatically entered to win an ISOBAR surge protector in our monthly drawing!

www.tripplite.com/warranty



Manufacturing
Excellence.

1111 W. 35th Street, Chicago, IL 60609 USA
www.tripplite.com/support

Copyright © 2019 Tripp Lite. All rights reserved.

Package Contents

- Transmitter Unit
- Receiver Unit
- Mounting Hardware
- External Power Supply (x2)

Product Features

- HDMI over Duplex LC Fiber Extender Kit extends a 4K (3840x2160) @ 60 Hz signal up to 1000 ft. (300 m) from the source
- Supports 4K (3840x2160) @ 60 Hz 4:4:4 maximum video resolution
- Supports 7.1-channel surround sound audio
- HDMI 2.0, HDCP 2.2 and HDR compatible
- Plug and play—no software or drivers required
- Additional HDMI port on the transmitter unit allows connection of a local display, enabling users to monitor the remote display's content
- Remote receiver unit features built-in equalization (EQ) control and auto-EDID image adjustment
- Transmitter and receiver units feature built-in 10G Multimode LC, 850nm, 300M, DDM transceivers
- Local port at transmitter with built-in multi-resolution technology connects any display without affecting 4K/60 Hz signal transmission
- Includes mounting hardware that allows both the local transmitter and remote receiver units to be wall-mounted, rack-mounted or pole-mounted

Optional Accessories

- P569-XXX-CERT or P568-XXX-2A Series High-Speed HDMI 2.0 Cable
- N820-Series 10 Gb Duplex Multimode LC-to-LC Fiber Patch Cable

Mounting Instructions

The B127-1A1-MM-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



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

1. Set the display to 30 Hz. Double-check the factory settings, as the 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 the 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: *If you are connecting 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 and model) to achieve 4K 60 Hz resolution.*

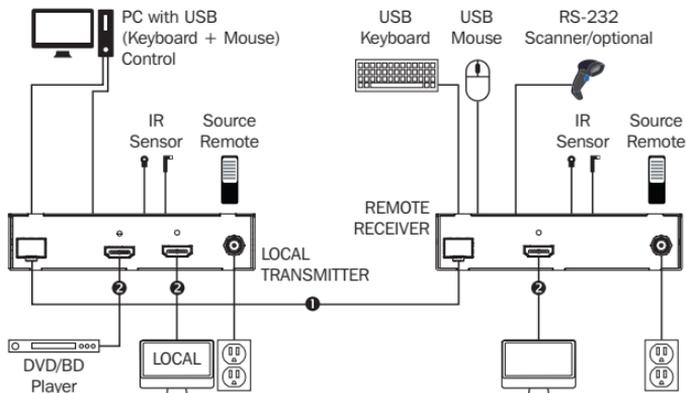
Notes:

- 1) *Test to ensure the entire installation works properly before pulling cables through ceilings/walls.*
- 2) *To achieve maximum distance and performance, use 10 Gb duplex multimode fiber cabling, such as Tripp Lite's N820-Series 10 Gb Duplex Multimode LC-to-LC Fiber Cable. Preinstalled 10 Gb transceivers are intended to work with 10 Gb fiber cables. Using lower-rated fiber cables can result in signal loss or no image.*

Standard Extender Kit Installation

B127F-1A1-MM-HH Extender Kit

- 1 Up to 1000 ft. multimode fiber cable
- 2 Up to 15 ft. HDMI 2.0 cable at 4K/60 Hz



- 1 Make sure all equipment in the installation 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 local transmitter unit. The LOCAL (orange) LED will illuminate to indicate the port is connected to a display.
- 4 Using duplex LC multimode (850 nm) fiber cable (such as Tripp Lite N820-Series cable), connect the LC fiber port on the local transmitter unit to the LC fiber port on the remote receiver unit.

Standard Extender Kit Installation

- 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 on the power to all of your connected displays (local and remote).
- 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 units are receiving power from the external power supply.
- 8 Turn on the power to the HDMI source. The OUTPUT (orange) LED on the local unit will illuminate to indicate a signal has been received from the source.
- 9 The (orange) LED will illuminate on both local transmitter and remote receiver units to indicate a signal has been received from source to display. The screen should now display on the connected monitor.

DIP Switch Settings

This extender kit provides one of the following functions via DIP switch settings:

- 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

DIP Switch Settings

DIP Switch Positions	Function Selection
1 (Up), 2 (Up)	IR Function
1 (Up), 2 (Down)	USB Function
1 (Down), 2 (Down)	RS-232 Function

(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.

Warranty and Product Registration

EXCEPT AS PROVIDED HEREIN, TRIPP LITE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL TRIPP LITE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, TRIPP LITE is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

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.

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.



Manufacturing
Excellence.

1111 W. 35th Street, Chicago, IL 60609 USA • www.tripplite.com/support