

## Important Note

When extending keyboard and mouse functionality through the Micro-USB B port, ensure the cable supports data transfer. U050-006 will support this application.

# HDMI over Fiber Extender Kit, Transmitter/Receiver, 4K 60 Hz, 4:4:4, RS-232, IR, Multimode LC, 985 ft. (300 m), TAA

MODEL NUMBER: B127F-1A1-MM-HH



Transmitter/receiver kit extends a 4K HDMI signal via multimode fiber cable to a HDMI monitor up to 985 ft. away.

## Features

**Extends HDMI Audio/Video Signals up to 300 m for Digital Signage** This complete transmitter and receiver system is recommended for video presentations in digital signage applications where the source and display are farther apart than conventional A/V cables allow. The B127F-1A1-MM-HH extends 4K video and stereo audio signals from an HDMI source device to an HDMI monitor up to 985 feet (300 meters) away via user-supplied duplex multimode LC fiber cabling.

**Transmits Crystal-Clear 4K HDMI Video with Multi-Channel Audio, HDR and 4:4:4 Color** The B127F-1A1-MM-HH supports Ultra HD video resolutions up to 4K x 2K (3840 x 2160) at 60 Hz, as specified in HDMI 2.0, with full, rich uncompressed DTS-HD, Dolby TrueHD and 7.1-channel digital audio. Built-in equalization automatically fine-tunes the image quality at the remote display with no time-consuming manual fiddling needed. High Dynamic Range (HDR) provides a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.2 compliance allows you to stream iTunes and Netflix content with no complications. This adapter supports 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor.

**DIP Switches Extend Your Choice of USB, IR or RS-232 Signals** The DIP switches on both the transmitter and receiver can be adjusted to let you choose from the USB 1.1, bi-directional IR and RS-232 functions. Only one function can be extended at a time.

**Plug-and-Play Operation for Quick Setup and Immediate Use** The included transmitter and receiver units work right out of the box with no software required. Mounting hardware is included for installing the units on walls, poles or 19-inch racks. Connect the transmitter to the source and the receiver to the display with HDMI cables (such as P569-Series). Then, connect a duplex multimode LC fiber cable (N820-Series) to the built-in 10G transceivers on the two units.

**Local HDMI Port Allows Connection of an Optional Display** Connect an optional display to the

## Highlights

- Supports UHD resolutions up to 4K @ 60 Hz (4:4:4) for crystal-clear video
- Extend touch screen ability of Interactive Flat Panel Displays
- Supports uncompressed DTS-HD, Dolby AC-3 and 7.1-channel digital audio
- Supports High Dynamic Range (HDR) for richer contrast and expanded color accuracy
- Transmitter's local HDMI port allows you to see the image being displayed 125 ft. away
- Plug-and-play operation with no software required for easy, immediate installation
- Supports data transfer rates up to 18 Gbps

## Applications

- Connect a media server or other digital signage component to a large-screen 4K display
- Upgrade the video quality of your trade show presentation or digital signage installation in a commercial or educational setting to 4K x 2K
- Increase the distance between your video source and video display up to 985-ft. (300 m)

## System Requirements

- Source device with HDMI output (media server, laptop)
- Display device with HDMI input (HDTV, projector, monitor)
- Fiber optic patch cables supporting 10Gb or higher

## Package Includes

- Transmitter unit
- Receiver unit
- IR-IN cable
- IR-OUT cable
- (2) RS-232 terminal blocks
- (2) External power supplies with 4.5 ft. cord (Input: 100-240V, 50/60 Hz, 0.35A; Output: 5V 2A)
- (8) International plug adapters (North America, Europe, Australia, United Kingdom)
- (2) Sets of mounting hardware



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transmitter's local HDMI output to see the image connected to the receiver up to 985 feet away. The local port allows connection of displays with lower resolutions, such as 720p and 1080p, without affecting the 4K 60 Hz signal transmission to the receiver.

- Owner's manual

**TAA-Compliant for GSA Schedule Purchases**The B127F-1A1-MM-HH is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

## Specifications

OVERVIEW	
UPC Code	037332239143
Product Type	Extender Kit
Technology	HDMI; IR; Fiber
Mode Type	Multimode
VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Max Supported Video Resolution	3840 x 2160 (4K @ 60Hz)
Max 1280 x 720 (720p) Range (ft)	984
Max 1920 x 1080 (1080p) Range (ft)	984
Max 1920 x 1200 Range (ft)	984
Max 2560 x 1600 Range (ft)	984
Max 3840 x 2160 (4K@30Hz) Range (ft)	984
Max 3840 x 2160 (4K@60Hz) Range (ft)	984
Transmitter Video Input	HDMI
Transmitter - Number of Video Outputs	1
Transmitter - Local Display Output	HDMI
Receiver/Transceiver Video Output	HDMI
Receiver - Number of Video Outputs	1
Recommended Cabling	N820-XXM-OM4/OM5 seriesN820-XXM-OM4/OM5 series
Max Supported Color Depth	24-bit True Color
HDR Support	No
3D Video Supported	Yes
Chroma Sub Sampling	4:4:4
Maximum Signal Range (ft)	985



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Maximum Signal Range (m)	300
<b>AUDIO</b>	
Audio Input	HDMI
Audio Output	HDMI
Audio Specification	True uncompressed 8-channel LPCM, AC-3, DTS digital audio
<b>INPUT</b>	
AC Power Adapter Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
AC Power Adapter Input Specs (V / Hz / A)	100-240V / 50/60Hz / 0.35A
AC Power Adapter Output Specs (V / A)	5V / 2A
AC Power Adapter Cord Length (ft.)	4.5
AC Power Adapter Cord Length (m)	1.37
Bus Powered	No
<b>POWER</b>	
Power Source Type	AC Adapter
AC Plug Type	NEMA 1-15P; BS1363; CEE 7/16 Schuko; AS/NZS 3112
Power Source	Transmitter and Receiver (Included)
Power Over Cable (PoC) Support	No
DC Barrel Plug	OD: 5.5 x 2.1 x 7.5mm, Positive Pin, Negative Sleeve
<b>CONNECTIONS</b>	
Side A - Connector 1	MICRO-USB B (FEMALE)
Side A - Connector 2	(2) HDMI (FEMALE); LC DUPLEX (FEMALE)
Side B - Connector 1	(2) USB A (FEMALE)
Side B - Connector 2	HDMI (FEMALE); LC DUPLEX (FEMALE)
Daisy-chainable / Cascadable	No
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
LED Indicators	Tx: x3 ORANGE (Link Indicator, Local, Signal Transmission), x1 Green (Power) RX: x1 Orange (Link Indicator), x1 Green (Power)
<b>PHYSICAL</b>	
Color	Black
Material of Construction	Metal
Included Mounting Accessories	Wallmount
Number of Displays	1



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Form Factor/Mounting Options	Box; Wall-mount
Rackmountable	Yes
Receiver Unit Dimensions (hwd / in.)	1.06 x 4.53 x 2.46
Receiver Unit Weight (lbs.)	0.5
Shipping Dimensions (hwd / in.)	3.27 x 13.54 x 5.91
Shipping Dimensions (hwd / cm)	8.31 x 34.39 x 15.01
Shipping Weight (lbs.)	3.06
Shipping Weight (kg)	1.39
Transmitter Unit Dimensions (hwd / in.)	1.06 x 4.53 x 2.46
Transmitter Unit Weight (lbs.)	0.5
Unit Dimensions (hwd / in.)	3.270 x 13.540 x 5.910
Unit Packaging Type	Box
Housing	Metal
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0% to 85% RH, Non-Condensing
<b>COMMUNICATIONS</b>	
Signal Range (ft.)	985
Signal Range (m)	300
Wavelength	850nm
EDID Compatible	Yes
IR Remote Extension Support	Yes
RS-232 Serial Extension Support	Yes
Consumer Electronics Control (CEC) Supported	Yes
USB Extension Support	Yes
<b>FEATURES &amp; SPECIFICATIONS</b>	
USB Specification	USB 1.1 (up to 12 Mbps)
10/100 Ethernet Extension Support	No
Built-In Equalizer	Yes
HDCP Specification	2.2
Driver Required	No
<b>STANDARDS &amp; COMPLIANCE</b>	



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External Power Supply Certifications	CCC; CE; FCC; GS; TUV; UL; cUL
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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