

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)

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

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

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 |
| Maximum Signal Range (m) | 300 |
| AUDIO | |



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| Audio Input | HDMI |
| Audio Output | HDMI |
| Audio Specification | True uncompressed 8-channel LPCM, AC-3, DTS digital audio |
| INPUT | |
| 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 |
| POWER | |
| 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 |
| CONNECTIONS | |
| 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 |
| USER INTERFACE, ALERTS & CONTROLS | |
| LED Indicators | Tx: x3 ORANGE (Link Indicator, Local, Signal Transmission), x1 Green (Power) RX: x1 Orange (Link Indicator), x1 Green (Power) |
| PHYSICAL | |
| Color | Black |
| Material of Construction | Metal |
| Number of Displays | 1 |
| 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 |



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| 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 |
| Mounting Details | Wallmount |
| ENVIRONMENTAL | |
| Operating Temperature Range | 32° to 104°F (0° to 40°C) |
| Storage Temperature Range | 5° to 122°F (-15° to 50°C) |
| Relative Humidity | 0-85% non-condensing |
| COMMUNICATIONS | |
| 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 |
| FEATURES & SPECIFICATIONS | |
| 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 |
| STANDARDS & COMPLIANCE | |
| External Power Supply Certifications | CCC; CE; FCC; GS; TUV; UL; cUL |
| Product Compliance | CE (Europe); FCC (USA); REACH; RoHS |



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WARRANTY & SUPPORT

| | |
|--|-------------------------|
| Product Warranty Period (Worldwide) | 1-year limited warranty |
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