Tripp Lite
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# DisplayPort over Fiber Extender Kit, Transmitter/Receiver, 4K, 4:4:4, Singlemode LC, Up to 6.2 mi., TAA

MODEL NUMBER: **B127F-1A1-SM-DD**







Transmitter/receiver kit extends a 4K DisplayPort signal via singlemode fiber cable to a DisplayPort monitor up to 6.2 miles away.

## Features

**DisplayPort Extender for Digital Signage or Displaying Video in Schools or Trade Show Booths**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, such as airports, outdoor arenas and schools. The B127F-1A1-SM-DD extends 4K video and stereo audio signals from a DisplayPort (DP) source device to a DisplayPort monitor up to 6.2 miles (10 kilometers) away via user-supplied duplex singlemode LC fiber cabling.

**Transmits Crystal-Clear 4K DisplayPort Video with Multi-Channel Audio and 4:4:4 Color**The B127F-1A1-SM-DD supports Ultra HD video resolutions up to 4K x 2K (3840 x 2160) at 30 Hz with full, rich uncompressed DTS-HD, Dolby AC-3 and 8-channel LPCM digital audio. Built-in equalization automatically fine-tunes the image quality at the remote display with no time-consuming manual fiddling needed. This extender kit is compatible with HDCP 2.2, DisplayPort 1.2a and EDID standards for carrying HDR (high dynamic range) signals. It also 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 DisplayPort cables (such as Tripp Lite's P580-Series). Then, connect the two units using a duplex singlemode LC fiber cable (Tripp Lite N320-Series). Connect an optional display to the transmitter's local HDMI output to monitor the image connected to the receiver up to 6.2 miles away. The local port lets you connect displays with different resolutions without affecting the 4K signal transmission.

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

## Highlights

- Achieve 4K resolutions in long-range digital signage applications with no booster needed
- Supports UHD resolutions up to 4K @ 30 Hz (4:4:4) for crystal-clear video
- Supports uncompressed DTS-HD, Dolby AC-3 and 8-channel LPCM digital audio
- Local HDMI port allows displays with different resolutions without affecting 4K signal
- Plug-and-play operation with no software required for easy, immediate installation

## Applications

- Upgrade the video quality of your long-range digital signage installation in a commercial or educational setting to 4K x 2K

## System Requirements

- Source device with DisplayPort output (media server, laptop)
- Display device with DisplayPort input (HDTV, projector, monitor)

## Package Includes

- Transmitter unit
- Receiver unit
- (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
- Owner's manual

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# Specifications

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|---|---|
| **OVERVIEW** | |
| UPC Code | 037332239174 |
| Product Type | Extender Kit |
| Technology | HDMI; IR; Fiber |
| Mode Type | Singlemode |
| **VIDEO** | |
| Video Input | DISPLAYPORT (FEMALE) |
| Video Output | DISPLAYPORT (FEMALE) |
| Max Supported Video Resolution | 3840x2160 (4K @ 30Hz) |
| Max 1280 x 720 (720p) Range (ft) | 32805 |
| Max 1920 x 1080 (1080p) Range (ft) | 32805 |
| Max 1920 x 1200 Range (ft) | 32805 |
| Max 2560 x 1600 Range (ft) | 32805 |
| Max 3840 x 2160 (4K@30Hz) Range (ft) | 32805 |
| Transmitter Video Input | DisplayPort |
| Transmitter - Number of Video Outputs | 1 |
| Transmitter - Local Display Output | HDMI |
| Receiver/Transceiver Video Output | DisplayPort |
| Receiver - Number of Video Outputs | 1 |
| Recommended Cabling | N370-Series Singlemode (LC/LC) |
| 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) | 32808 |
| Maximum Signal Range (m) | 10,002 |
| **AUDIO** | |
| Audio Input | Displayport |
| Audio Output | Displayport |
| Audio Specification | True uncompressed 8-channel LPCM, AC-3, DTS digital audio |

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| **INPUT** | |
| 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 |
| External Power Supply Input Specs (V / Hz / A) | 100-240V / 50-60Hz / 0.35A |
| External Power Supply Output Specs (V / A) | 5V/2A |
| External Power Supply Cord Length (ft.) | 4.5 |
| External Power Supply Cord Length (m.) | 1.38 |
| DC Barrel Plug | OD: 5.5 x 2.1 x 7.5mm, Positive Pin, Negative Sleeve |
| **USER INTERFACE, ALERTS & CONTROLS** | |
| LED Indicators | Tx: x3 ORANGE (Link Indicator, Local, Source Connection), x1 Green (Power) RX: x1 Orange (Link Indicator), x1 Green (Power) |
| **PHYSICAL** | |
| Material of Construction | Metal |
| Color | Black |
| Included Mounting Accessories | Wallmount |
| Number of Displays | 2 |
| Form Factor/Mounting Options | Box; Wall-mount |
| Rackmountable | Yes |
| Receiver Unit Dimensions (hwd / in.) | 5.04 x 1.17 x 3.94 |
| Receiver Unit Weight (lbs.) | 0.5 |
| Transmitter Unit Dimensions (hwd / in.) | 5.04 x 1.17 x 3.94 |
| Transmitter Unit Weight (lbs.) | 0.5 |
| Unit Packaging Type | Box |
| Housing | Metal |
| **ENVIRONMENTAL** | |
| Operating Temperature Range | 32 to 104°F (0 to 40°C) |

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| Storage Temperature Range | 5 to 122°F (-15 to 50°C) |
| Relative Humidity | 0% to 85% RH, Non-Condensing |
| **COMMUNICATIONS** | |
| Wavelength | 1310nm |
| EDID Compatible | Yes |
| IR Remote Extension Support | Yes |
| RS-232 Serial Extension Support | Yes |
| Consumer Electronics Control (CEC) Supported | Yes |
| USB Extension Support | Yes |
| **CONNECTIONS** | |
| Side A - Connector 1 | MICRO-USB B (FEMALE) |
| Side A - Connector 2 | DISPLAYPORT (FEMALE); HDMI (FEMALE); LC DUPLEX (FEMALE) |
| Side B - Connector 1 | (2) USB A (FEMALE) |
| Side B - Connector 2 | DISPLAYPORT (FEMALE); LC DUPLEX (FEMALE) |
| **FEATURES & SPECIFICATIONS** | |
| Displayport Specification | 1.2a |
| HDCP Specification | 1.4; 2.2 |
| USB Specification | USB 1.1 (up to 12 Mbps) |
| Driver Required | No |
| 10/100 Ethernet Extension Support | No |
| Built-In Equalizer | Yes |
| **STANDARDS & COMPLIANCE** | |
| External Power Supply Certifications | CCC; CE; FCC; GS; PSE; TUV; UL; cUL |
| Certification & Compliance | CE (Europe); RoHS; REACH; FCC (USA) |
| **WARRANTY** | |
| Product Warranty Period (Worldwide) | 1-year limited warranty |

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