

## DisplayPort over Fiber Extender Kit - 4K @ 30 Hz, RS-232, IR, USB, Duplex Singlemode LC, 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 conference rooms, schools, trade shows, meeting facilities, houses of worship, retail settings and digital signage applications where the source and display are farther apart than conventional A/V cables allow. 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 3840 x 2160 (4K x 2K) 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. It's 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 N520-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.

#### 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

- Delivers UHD picture quality at resolutions up to 3840 x 2160 (4K x 2K) @ 30 Hz
- Supports uncompressed DTS-HD, Dolby AC-3 and 8-channel LPCM digital audio
- Meets DisplayPort 1.2a standards, including 4:4:4 subsampling for HDR televisions
- Transmitter's local HDMI port allows you to see the Ultra HD image being displayed
- Plug-and-play operation with no software required for easy, immediate installation

### Applications

- Connect a media server, cable/satellite box, gaming system or other home theater component to a large-screen 4K television or projector
- Upgrade the video quality of your trade show presentation or 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

## Specifications

OVERVIEW	
UPC Code	037332239174
INPUT	
Voltage Compatibility (VAC)	100; 110; 120; 125; 127; 200; 208; 220; 230; 240
External Power Supply Input Specs (V / Hz / A)	100-240~50/60Hz, 0.35A
External Power Supply Output Specs (V / A)	5V/2A
External Power Supply Cord Length (ft.)	4.5
External Power Supply DC Barrel Connector Specs	OD: 5.5 x 2.1 x 7.5mm, Positive Pin, Negative Sleeve
External Power Supply Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
External Power Supply Certifications	CCC; CE; FCC; GS; TUV; UL; cUL
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
Rackmountable	Yes
Receiver Unit Dimensions (hwd / in.)	1.06 x 4.53 x 2.46
Receiver Unit Weight (lbs.)	0.5
Transmitter Unit Dimensions (hwd / in.)	1.06 x 4.53 x 2.46
Transmitter Unit Weight (lbs.)	0.5



Unit Packaging Type	Box
<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>CONNECTIONS</b>	
Side A - Connector 1	(2) 3.5MM (FEMALE); MICRO-USB B (FEMALE)
Side A - Connector 2	DISPLAYPORT (FEMALE); HDMI (FEMALE); LC DUPLEX (FEMALE)
Side B - Connector 1	(2) 3.5MM (FEMALE); (2) USB A (FEMALE)
Side B - Connector 2	DISPLAYPORT (FEMALE); LC DUPLEX (FEMALE)
<b>FEATURES &amp; SPECIFICATIONS</b>	
Max Supported Video Resolution	4K x 2K (3840 x 2160) @30Hz
Displayport Specification	1.2a
HDMI Specification	2.0
HDCP Specification	2.2
Audio Specification	True uncompressed 8-channel LPCM, AC-3, DTS digital audio
Driver Required	No
EDID Compatible	Yes
Power Over Cable (PoC) Support	No
IR Remote Extension Support	Yes
RS-232 Serial Extension Support	Yes
Technology	DisplayPort; HDMI; HDR
Wavelength	1310nm
Chroma Sub Sampling	4:4:4
Mode Type	Singlemode
<b>SPECIAL FEATURES</b>	
HDR Support	Yes
<b>CERTIFICATIONS</b>	
Certifications	Tested to CE, FCC, REACH, RoHS
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	1-year limited warranty



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<https://www.tripplite.com/products/product-certification-agencies>