

## 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.

# 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 P580-Series). Then, connect the two units using a duplex singlemode LC fiber cable (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.

## Highlights

- Achieve 4K resolutions in long-range digital signage applications with no booster needed
- Extend touch screen ability of Interactive Flat Panel Displays
- 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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**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.

## Specifications

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	3840 x 2160 (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



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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)	1.38
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	DISPLAYPORT (FEMALE); HDMI (FEMALE); LC DUPLEX (FEMALE)
Side B - Connector 1	(2) USB A (FEMALE)
Side B - Connector 2	DISPLAYPORT (FEMALE); LC DUPLEX (FEMALE)
Daisy-chainable / Cascadable	No
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
LED Indicators	Tx: x3 ORANGE (Link Indicator, Local, Source Connection), x1 Green (Power) RX: x1 Orange (Link Indicator), x1 Green (Power)
<b>PHYSICAL</b>	
Color	Black
Material of Construction	Metal
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
Shipping Dimensions (hwd / in.)	3.20 x 13.54 x 5.91
Shipping Dimensions (hwd / cm)	8.13 x 34.39 x 15.01



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Shipping Weight (lbs.)	3.06
Shipping Weight (kg)	1.39
Transmitter Unit Dimensions (hwd / in.)	5.04 x 1.17 x 3.94
Transmitter Unit Weight (lbs.)	0.5
Unit Dimensions (hwd / in.)	2.120 x 4.530 x 2.460
Unit Packaging Type	Box
Housing	Metal
Mounting Details	Wallmount
<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	0-85% non-condensing
<b>COMMUNICATIONS</b>	
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
<b>FEATURES &amp; SPECIFICATIONS</b>	
USB Specification	USB 1.1 (up to 12 Mbps)
10/100 Ethernet Extension Support	No
Built-In Equalizer	Yes
Displayport Specification	1.2a
HDCP Specification	1.4; 2.2
Driver Required	No
<b>STANDARDS &amp; COMPLIANCE</b>	
External Power Supply Certifications	CCC; CE; FCC; GS; PSE; TUV; UL; cUL
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	1-year limited warranty



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