

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

MODEL NUMBER: B127F-1A1-MM-DD



Transmitter/receiver kit extends a 4K DisplayPort signal via multimode fiber cable to a DisplayPort monitor up to 985 ft. 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-MM-DD extends 4K video and stereo audio signals from a DisplayPort (DP) source device to a DisplayPort monitor up to 985 feet (300 meters) away via user-supplied duplex multimode LC fiber cabling.

Transmits Crystal-Clear 4K DisplayPort Video with Multi-Channel Audio and 4:4:4 Color The B127F-1A1-MM-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. 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 multimode LC fiber cable (Tripp Lite N820-Series). Connect an optional display to the transmitter's local HDMI output to monitor the image connected to the receiver up to 985 feet (300 meters) 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.

TAA-Compliant for GSA Schedule Purchases The B127F-1A1-MM-DD is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule

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
- 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

- 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)
- Fiber Patch Cables supporting 10Gb or higher

Package Includes

- Transmitter unit
- Receiver unit
- (2) External power supplies with 4.5-ft. (1.37 m) 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



and other federal procurement contracts.

Specifications

| OVERVIEW | |
|---------------------------------------|------------------------------|
| UPC Code | 037332239167 |
| Product Type | Extender Kit |
| Technology | DisplayPort; HDMI; IR; Fiber |
| Mode Type | Multimode |
| VIDEO | |
| Video Input | DISPLAYPORT (FEMALE) |
| Video Output | DISPLAYPORT (FEMALE) |
| Max Supported Video Resolution | 3840x2160 (4K @ 30Hz) |
| 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 |
| 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 | N820-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 | |
| Audio Input | Displayport |
| Audio Output | Displayport |



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| Audio Specification | True uncompressed 8-channel LPCM, AC-3, DTS digital audio |
| 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 Connectio), 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 | 1 |
| 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 | |



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| 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 |
| 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 |
| 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 | |
| Certifications | Tested to CE, FCC, REACH, RoHS |
| External Power Supply Certifications | CCC; CE; FCC; GS; PSE; TUV; UL; cUL |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 1-year limited warranty |



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Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies:

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