

DisplayPort over Cat6 Extender Kit, KVM Support, USB, 4K, DP1.2a, PoC, HDCP 2.2, 230 ft. (70 m), TAA

MODEL NUMBER: B127A-1A1-BDBD



DisplayPort extender kit with transmitter and receiver extends a 4K signal via Cat6 cable to a DisplayPort monitor up to 230 ft. away.

Features

DisplayPort Extender Kit Ideal for Digital Signage in Schools, Restaurants and Lecture Halls

This complete transmitter and receiver system is recommended for video presentations in conference rooms, schools, trade shows, meeting facilities, houses of worship, retail settings, hotels and other digital signage applications where the source and display are farther apart than conventional A/V cables allow.

Extends a 4K A/V Transmission up to 230 ft.

The B127A-1A1-BDBD extends 4K signals from a DisplayPort source device to a DisplayPort monitor up to 230 feet (70 meters) away via user-supplied Cat6 cabling. By adding a B127A-010-H HDMI repeater or B127A-110-BH transceiver (sold separately) to the application, you can extend the signal up to 400 feet (122 meters) or 460 feet (140 meters), respectively.

Transmits Crystal-Clear 4K Video with Multi-Channel Audio and 4:4:4 Color

The B127A-1A1-BDBD supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 30 Hz with full, rich uncompressed DTS-HD, Dolby TrueHD and 7.1-channel digital audio. HDCP 2.2 compliance allows you to stream 4K Amazon and Netflix content with no complications. This extender kit also supports 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor. Built-in equalization allows you to fine-tune the image quality at the remote display.

Local HDMI Port on Transmitter Supports 4K @ 30 Hz Resolution

To monitor the video signal being extended to the receiver, connect a 4K display to the transmitter's local HDMI port with a user-supplied HDMI cable (such as P568- or P569-Series). This port does not support multi-resolution capabilities, so the connected monitor must also support 4K/30 Hz to function properly.

Built-In PoC Technology Provides Receiver Power to Avoid Bulky External Power Bricks

Power over Cable (PoC) technology powers the receiver over Cat6 cable. LEDs on both the transmitter and receiver will light up to indicate the system is receiving power and a signal is being transmitted. PoC lets you avoid the hassle of a bulky power brick and gives you the freedom to place the receiver where needed without worrying about finding a nearby AC outlet. **DIP Switch Extends Your Choice of Either USB or IR**

The DIP switches on both the transmitter and receiver can be adjusted to let you choose from the USB 1.1 or bi-directional IR functions. Choose to control the source device via keyboard and mouse or IR remote

Highlights

- Supports UHD resolutions up to 4K @ 30 Hz (4:4:4) for crystal-clear video
- Power over Cable (PoC) technology provides power to the receiver via Cat6 cable
- Transmitter's local port shows you the 4K image being displayed at the other end
- DIP switch selection allows bi-directional IR or USB function for controlling the source
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Applications

- Connect a laptop for a video or PowerPoint presentation in an auditorium or lecture hall, where the source device changes frequently
- Extend video signals from one room to another using Cat6 cable, which can pass through conduit to meet building codes
- Gain flexibility in where the receiver is placed, with the freedom to move and relocate it away from an AC outlet
- Improve the line of sight for digital signage in a hotel, restaurant, theater, house of worship, trade show or other location

System Requirements

- Source device with DisplayPort output (Blu-ray player, PC, laptop)
- Display device with DisplayPort input (HDTV, projector, monitor)

Package Includes

- Transmitter
- Receiver
- External power supply (Input: 100–240V, 50/60 Hz, 0.6A; Output: 24V 1A)
- (4) International plug adapters (North America, Europe, U.K. and Australia)
- Mounting hardware
- Owner's manual

control from the display end of the installation. 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 both units on a wall, pole or 19-inch rack. Connect the transmitter to the source with a user-supplied DisplayPort cable (such as P580-Series). Then, connect the receiver to the display with another user-supplied DisplayPort cable. Finally, connect the two units with user-supplied Cat6 patch cable (such as N202-Series).

TAA-Compliant for GSA Schedule Purchases

The B127A-1A1-BDBD 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 | 037332261311 |
| Product Type | Extender Kit |
| Technology | Cat5/5e; Cat6; HDMI; POC |
| VIDEO | |
| Video Input | DISPLAYPORT (FEMALE) |
| Video Output | DISPLAYPORT (FEMALE); HDMI (FEMALE) |
| Number of Monitors Supported | 2 |
| Video Ports | DISPLAYPORT (FEMALE); HDMI (FEMALE) |
| Video Ports Details | HDMI 2.0; HDCP 1.4; HDCP 2.2; DisplayPort 1.4 |
| Max Supported Video Resolution | 3840 x 2160 (4K @ 30Hz) |
| Max 1280 x 720 (720p) Range (ft) | 230 |
| Max 1920 x 1080 (1080p) Range (ft) | 230 |
| Max 1920 x 1200 Range (ft) | 230 |
| Max 2560 x 1600 Range (ft) | 230 |
| Max 3840 x 2160 (4K@30Hz) Range (ft) | 230 |
| 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 |
| Range Extension using other Tripp Lite product | 170 ft. or 230 ft. |
| Recommended Cabling | Solid Wire Cat6 Cables (Tripp Lite's N202-Series) |

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| Extended Mode | Yes |
| Extended Mode Details | x1 HDMI (4K/60 Hz) |
| Mirror Mode | Yes |
| Mirror Mode Details | x1 HDMI (4K/60 Hz) |
| Other Tripp Lite product used to extend range | B127A-010-H or B127A-110-BH |
| Max Supported Color Depth | 36-bit True Color |
| HDR Support | No |
| 3D Video Supported | Yes |
| Chroma Sub Sampling | 4:4:4 |
| Maximum Signal Range (ft) | 230 |
| Maximum Signal Range (m) | 70 |
| AUDIO | |
| Audio Ports | DISPLAYPORT (FEMALE) |
| Audio Ports Details | Supports pass-through of audio formats including LPCM2.0/5.1/7.1 |
| Audio Input | Displayport |
| Audio Output | Toslink; Displayport |
| Audio Specification | Pass-through audio (LPCM 2.0/5.1/7.1) |
| 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 / 0.6A |
| AC Power Adapter Output Specs (V / A) | 24V / 1A |
| AC Power Adapter Cord Length (ft.) | 4.5 |
| AC Power Adapter Cord Length (m) | 1.38 |
| Voltage Compatibility (VAC) | 100; 110; 120; 125; 127; 200; 208; 220; 230; 240 |
| 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 or Receiver (Included) |
| Power Over Cable (PoC) Support | Yes |
| Receiver Power Source | AC Adapter (Included); Power Over Cable |

| USER INTERFACE, ALERTS & CONTROLS | |
|--|--|
| LED Indicators | TX: Green (Power); RJ45 Port: Green (Connection), Orange (Activity); RX: Green (Power), RJ45 Port: Green (Connection), Orange (Activity) |
| PHYSICAL | |
| Color | Black |
| Material of Construction | Metal |
| Included Mounting Accessories | Wallmount |
| Number of Displays | 1 |
| Form Factor/Mounting Options | Box; Wall-mount |
| Rackmountable | Yes |
| Receiver Unit Dimensions (hwd / cm.) | 2.7 x 11.5 x 6.24 |
| Receiver Unit Dimensions (hwd / in.) | 1.06 x 4.53 x 2.46 |
| Receiver Unit Weight (kg) | 0.4536 |
| Receiver Unit Weight (lbs.) | 1 |
| Shipping Dimensions (hwd / in.) | 2.17 x 10.24 x 6.46 |
| Shipping Dimensions (hwd / cm) | 5.51 x 26.01 x 16.41 |
| Shipping Weight (lbs.) | 1.00 |
| Shipping Weight (kg) | 0.45 |
| Transmitter Unit Dimensions (hwd / cm.) | 2.7 x 11.5 x 6.24 |
| Transmitter Unit Dimensions (hwd / in.) | 1.06 x 4.53 x 2.46 |
| Transmitter Unit Weight (kg) | 0.4536 |
| Transmitter Unit Weight (lbs.) | 1 |
| Unit Packaging Type | Box |
| 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% to 85% RH, Non-Condensing |
| COMMUNICATIONS | |
| Signal Range (ft.) | 230 |
| Signal Range (m) | 70 |
| Transmission Distance | 230 ft. (70 m); 400 ft. (121 m) when using B127A-010-H signal booster |
| EDID Compatible | Yes |

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| IR Remote Extension Support | Yes |
| RS-232 Serial Extension Support | No |
| Consumer Electronics Control (CEC) Supported | Yes |
| Latency | Zero-Latency |
| USB Extension Support | Yes |
| CONNECTIONS | |
| Side A - Connector 1 | DISPLAYPORT (FEMALE) |
| Side A - Connector 2 | HDMI (FEMALE) |
| Side A - Connector 3 | RJ45 (FEMALE) |
| Side A - Connector 4 | (2) 3.5MM (FEMALE); MICRO-USB B (FEMALE) |
| Side B - Connector 1 | DISPLAYPORT (FEMALE) |
| Side B - Connector 2 | RJ45 (FEMALE) |
| Side B - Connector 3 | (2) USB A (FEMALE) |
| Side B - Connector 4 | TOSLINK (FEMALE); (2) 3.5MM (FEMALE) |
| Side B - Connector 5 | TOSLINK (FEMALE) |
| Daisy-chainable / Cascadable | No |
| FEATURES & SPECIFICATIONS | |
| USB Specification | USB 1.1 (up to 12 Mbps) |
| MST Support | No |
| Mounting Accessory Included | Yes |
| Multi-Resolution Support | No |
| Displayport Specification | 1.2a |
| HDCP Specification | 2.2 |
| Driver Required | No |
| Recommended Category Cable | Cat6 |
| STANDARDS & COMPLIANCE | |
| External Power Supply Certifications | CE; FCC; CCC; GS; TUV; UL; cUL |
| Product Compliance | RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA); UKCA |
| WARRANTY & SUPPORT | |
| Product Warranty Period (Worldwide) | 1-year limited warranty |



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