

DisplayPort to HDMI over Cat6 Extender Kit, Transmitter/Transceiver - 4K 60 Hz, HDR, 4:4:4, PoC, 230 ft. (70.1 m), TAA

MODEL NUMBER: B127A-111-BDTH



Transmitter/transceiver combo extends a 4K DisplayPort signal over Cat6 cable to an HDMI monitor up to 230 ft. away.

Features

Cat6 Extender Kit Ideal for Digital Signage in Schools and Workplaces

This 4K transmitter/transceiver extender kit 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. The B127A-111-BDTH extends 4K signals from a DisplayPort source to an HDMI display up to 230 feet (70.1 meters) away via user-supplied Cat6 cabling.

Extends Crystal-Clear 4K Video with Multi-Channel Audio, HDR and 4:4:4 Color

The B127A-111-BDTH supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 60 Hz with 7.1-channel surround sound and 36-bit Deep Color. High Dynamic Range (HDR) provides a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.2 compliance allows you to stream 4K Amazon and Netflix content with no complications. Advanced 4:4:4 chroma subsampling is ideal for top-level PC gaming or using your HDTV as a PC monitor.

Local HDMI Port on Transmitter Supports 4K @ 60 Hz Resolution

To monitor the video signal being extended to the transceiver, connect a 4K display to the transmitter's local HDMI port with a user-supplied HDMI cable. This port does not support multi-resolution capabilities, so the connected monitor must also support 4K/60 Hz to function properly.

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

Power over Cable (PoC) technology powers the connected receivers over Cat6 cable. LEDs indicate when 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 receivers where needed without worrying about finding a nearby AC outlet.

Create a Daisy Chain of Displays to Achieve Even More Distance

This extender kit is capable of forming daisy-chain installations up to 920 feet (280.4 meters) from the transmitter by connecting additional B127A-110-BH transceivers (sold separately) and HDMI displays. Up to four total B127A-110-BH transceivers can be chained together, each capable of extending a 4K/60 Hz signal up to 230 feet per unit. The transceiver is also compatible with B127A-010-H signal booster (sold separately), which allows the signal to be boosted up to 400 feet (121.9 meters) total between the transmitter and transceiver. When used in a daisy-chain installation, this brings the total extension

Highlights

- Supports 4K @ 60 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- Carries High Dynamic Range (HDR) signals for rich contrast and expanded color accuracy
- Power over Cable (PoC) technology provides power to the transceiver via Cat6 cable
- Transmitter's local port shows you the 4K image being displayed at the other end
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Applications

- 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 transceiver 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 (PC, cable box, media server)
- Display device with HDMI input (HDTV, projector, monitor)

Package Includes

- Transmitter
- Transceiver
- 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



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distance up to 1,090 ft. (332.2 meters). **Note:** B127A-010-H will only work when used in the first link of the daisy-chain installation.

Plug-and-Play Operation for Quick Setup and Immediate Use

The included transmitter and transceiver work right out of the box with no software required. Mounting hardware is included for installing the 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 transceiver to the display with a user-supplied HDMI cable (such as P568- or P569-Series). Finally, connect the two units with user-supplied Cat6 cable (such as N202-Series).

TAA-Compliant for GSA Schedule Purchases

The B127A-111-BDTH 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 | 037332263988 |
| Product Type | Extender Kit |
| Technology | Cat5/5e; Cat6; HDMI; POC |
| Host Connector | DISPLAYPORT (FEMALE) |
| VIDEO | |
| Video Input | DISPLAYPORT (FEMALE) |
| Video Output | HDMI (FEMALE) |
| Number of Monitors Supported | 1 |
| Video Ports | HDMI (FEMALE); RJ45 (FEMALE) |
| Video Ports Details | DisplayPort 1.2a; HDMI 2.0; HDCP 2.2 |
| Supported Resolutions | 1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K) |
| Max Supported Video Resolution | 3840 x 2160 @ 60 Hz |
| Max. Distance (Between any 2 Units) | 230 ft. |
| Max 720P Range (ft) | 230 |
| Max 1080P Range (ft) | 230 |
| 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) Range (ft) | 230 |
| Max 3840 x 2160 (4K@30Hz) Range (ft) | 230 |
| Max 3840 x 2160 (4K@60Hz) Range (ft) | 230 |



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| Maximum Distance with Booster | 400 |
| Transmitter Video Input | DisplayPort |
| Transmitter - Number of Video Outputs | 1 |
| Transmitter - Local Display Output | HDMI |
| Receiver/Transceiver Video Output | HDMI |
| Receiver - Number of Video Outputs | 2 |
| Signal Range (ft) | 230 |
| Signal Range (m) | 70 |
| Range Extension with Booster | Yes |
| Range Extension using other Tripp Lite product | 400 ft. (between TX/RX); 1090 ft. (in full 4-layer daisy-chain installation) |
| Recommended Cabling | 24AWG Solid Wire Cat6 Cabling |
| Extended Mode | Yes |
| Extended Mode Details | x1 HDMI Output (4K/60 Hz) |
| Mirror Mode | Yes |
| Mirror Mode Details | x1 HDMI Output (4K/60 Hz) |
| Other Tripp Lite product used to extend range | B127A-010-H Signal Booster, B127A-110-BD or B127A-110-BH transceivers |
| Max Supported Color Depth | 36-bit Deep Color |
| HDR Support | No |
| 3D Video Supported | Yes |
| Chroma Sub Sampling | 4:4:4 |
| Maximum Signal Range (ft) | 230 |
| Maximum Signal Range (m) | 70 |
| Maximum Signal Range Details | 4K/60 Hz DisplayPort to HDMI up to 230 ft. |
| AUDIO | |
| Audio Ports | HDMI (FEMALE); TOSLINK (FEMALE) |
| Audio Ports Details | x1 HDMI output and x1 TOSLINK output (both support pass-through audio formats including LPCM 2.0/5.1/7.1) |
| Audio Input | Displayport |
| Audio Output | HDMI |
| Audio Specification | Pass-through audio formats including 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 |



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| AC Power Adapter Output Specs (V / A) | 24V / 1A |
| AC Power Adapter Cord Length (ft.) | 4.53 |
| 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 | AS/NZS 3112; BS1363; CEE 7/16 Schuko; NEMA 1-15P |
| Power Source | Transmitter or Receiver (Included) |
| Power Over Cable (PoC) Support | Yes |
| Receiver Power Source | Power Over Cable |
| CONNECTIONS | |
| Side A - Connector 1 | DISPLAYPORT (FEMALE) |
| Side A - Connector 2 | HDMI (FEMALE) |
| Side A - Connector 3 | RJ45 (FEMALE) |
| Side B - Connector 1 | HDMI (FEMALE) |
| Side B - Connector 2 | (2) RJ45 (FEMALE) |
| Side B - Connector 3 | TOSLINK (FEMALE) |
| Daisy-chainable / Cascadable | Yes |
| Daisy-chainable / Cascadable Details | Up to 4 Units |
| USER INTERFACE, ALERTS & CONTROLS | |
| LED Indicators | Transmitter: (1) Power = Green, (1) RJ45 = Green (Power), Orange (Data); Transceiver: (1) Power = Green, (2) RJ45 = Green (Power), Orange (Data) |
| PHYSICAL | |
| Color | Black |
| Material of Construction | Metal |
| Number of Displays | 2 |
| Form Factor/Mounting Options | Box; Rackmount; 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 (lbs.) | 1 |
| Shipping Dimensions (hwd / in.) | 2.17 x 10.24 x 6.46 |



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| Shipping Dimensions (hwd / cm) | 5.51 x 26.01 x 16.41 |
| Shipping Weight (lbs.) | 1.23 |
| Shipping Weight (kg) | 0.56 |
| 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 (lbs.) | 1 |
| Unit Packaging Type | Box |
| Mounting Details | (4) Mounting Brackets & Screws |
| 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. |
| EDID Compatible | Yes |
| IR Remote Extension Support | No |
| RS-232 Serial Extension Support | No |
| Consumer Electronics Control (CEC) Supported | Yes |
| Latency | 0 |
| USB Extension Support | No |
| PORT EXPANSION | |
| Daisy-chainable or Cascadable | Daisychainable up to 4 layers, 230 ft. per layer (920 ft. total) |
| FEATURES & SPECIFICATIONS | |
| Integrated/Removable Cable | No |
| MST Support | No |
| Mounting Accessory Included | Yes |
| Multi-Resolution Support | No |
| Built-In Equalizer | Yes |
| Displayport Specification | 1.2a |
| HDCP Specification | 2.2 |



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| Driver Required | No |
| Recommended Category Cable | 24AWG Cat6 |
| DIN Mountable | No |
| STANDARDS & COMPLIANCE | |
| External Power Supply Certifications | CCC; CE; 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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