

# DisplayPort over Cat6 Extender Kit, Transmitter and Receiver with Repeater, 4K 60 Hz, 4:4:4, Power over Cable, 230 ft. (70 m), TAA

MODEL NUMBER: B127A-111-BDTDA



Transmitter/receiver kit extends a 4K DisplayPort signal via Cat6 cable to a DisplayPort monitor up to 230 ft. away.

## Features

### DisplayPort Extender for Digital Signage in Schools, Trade Shows and Lecture Halls

This complete transmitter and transceiver 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 AV cables allow. The B127A-111-BDTDA extends 4K signals from a DisplayPort source to a DisplayPort monitor up to 230 feet (70 meters) away with zero latency via user-supplied Cat6 cabling.

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

The B127A-111-BDTDA supports Ultra HD 4K resolutions up to 3840 x 2160 at 60 Hz with 7.1-channel surround sound via the transceiver's TOSLINK audio output. Built-in equalization allows you to fine-tune the image quality at the remote display. HDCP 2.2 encryption allows you to stream 4K content with no complications. This extender kit also supports uncompressed 4:4:4 chroma subsampling 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 (such as P568- or P569-Series).

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

Power over Cable (PoC) technology powers either the transmitter or transceiver over Cat6 cable. Connect the included power supply at either end to power the entire installation. LEDs on both the transmitter and transceiver light up to indicate the system is receiving power and a signal is being transmitted. PoC helps you avoid the hassle of a bulky power brick and gives you the freedom to place one end where needed without worrying about finding a nearby AC outlet.

### Create a Daisy Chain 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-BD transceivers (sold separately). Up to four total transceivers can be chained together, each capable of extending a 4K 60 Hz signal up to 230 feet per unit. The kit is also compatible with the B127A-010-H signal booster (sold separately), which allows the signal, when used in a daisy chain, to be enhanced up to 1,090 feet (332.2 meters) total. **Note:** B127A-010-H will only work when used in the first link of the daisy-chain installation.

## Highlights

- Supports UHD resolutions up to 4K @ 60 Hz (4:4:4) with multi-channel audio
- Power over Cable (PoC) technology provides power to either unit via Cat6 cable
- Can be daisy-chained up to 4 times (920 ft. total) via additional B127A-110-BD receivers
- Plug-and-play operation with no software required for easy, immediate installation
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

## System Requirements

- Source device with DisplayPort output (media server, laptop)
- Display device with DisplayPort input (HDTV, projector, monitor)

## Package Includes

- Transmitter
- Transceiver
- External power supply (Input: 100–240V, 50/60 Hz, 0.6A; Output: 24V 1A) with 4.5 ft. (1.4 m) cord
- (4) International plug adapters (North America, Europe, U.K. and Australia)
- Mounting hardware
- Owner's manual



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**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 transceiver on a wall, pole or 19-inch rack. Connect the transmitter to the source and the transceiver to the display with user-supplied DisplayPort cables (such as P580-Series). Then, connect the two units with user-supplied Cat6 Ethernet cable (such as N202-Series).

**TAA-Compliant for GSA Schedule Purchases**

The B127A-111-BDTDA 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	037332288066
Product Type	Extender Kit
Technology	Cat5/5e; Cat6; DisplayPort; HDMI; POC
Host Connector	HDMI (FEMALE)
VIDEO	
Video Input	DISPLAYPORT (FEMALE)
Video Output	DISPLAYPORT (FEMALE); HDMI (FEMALE)
Number of Monitors Supported	1
Video Ports	DISPLAYPORT (FEMALE); HDMI (FEMALE)
Video Ports Details	HDCP 1.4; HDCP 2.2; DisplayPort 1.2a
Resolutions Supported	DisplayPort Output and Local HDMI Output: 3840 x 2160 (4K) @ 60 Hz
Supported Resolutions	3840x2160 (4K)
Max Supported Video Resolution	4K (3840 x 2160) 60 Hz
Max. Distance (Between any 2 Units)	230 ft
Max Number of Ports (Entire Chain)	4
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@30Hz) Range (ft)	230
Maximum Distance with Booster	400
Transmitter Video Input	DisplayPort



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Transmitter - Number of Video Outputs	2
Transmitter - Local Display Output	HDMI
Receiver/Transceiver Video Output	DisplayPort
Receiver - Number of Video Outputs	1
Signal Range (ft)	230
Range Extension with Booster	Yes
Range Extension using other Tripp Lite product	230 ft.
Recommended Cabling	Solid Wire Cat6 Cables (Tripp Lite's N202-Series)
Extended Mode	Yes
Extended Mode Details	x1 DisplayPort Output (4K/30 Hz)Can be daisy-chained up to four lengths with each additional B127A-110-BD transceiver unit featuring x1 4K/30 Hz DisplayPort output
Mirror Mode	Yes
Mirror Mode Details	x1 DisplayPort Output (4K/30 Hz)Can be daisy-chained up to four lengths with each additional B127A-110-BD transceiver unit featuring x1 4K/30 Hz DisplayPort output
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
<b>AUDIO</b>	
Audio Input	Displayport
Audio Output	DisplayPort
Audio Specification	Pass-through of Audio format includes LPCM2.0/5.1/7.1
<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 / 0.6A
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
<b>POWER</b>	



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Power Source Type	AC Adapter
Power Over Cable (PoC) Support	Yes
Receiver Power Source	AC Adapter (Included); Power Over Cable
<b>CONNECTIONS</b>	
Side A - Connector 1	DISPLAYPORT (FEMALE)
Side A - Connector 2	HDMI (FEMALE)
Side A - Connector 3	RJ45 (FEMALE)
Side B - Connector 1	(2) RJ45 (FEMALE)
Side B - Connector 2	DISPLAYPORT (FEMALE)
Side B - Connector 3	TOSLINK (FEMALE)
Daisy-chainable / Cascadable	Yes
Daisy-chainable / Cascadable Details	Up to 4 Units
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
LED Indicators	Transmitter: (1) Power = Green (Connected to external power supply/PoC from Receiver), (1) RJ45 Port = Green (Power), (1) Orange (Transmitting data to connected receiver); Receiver: (1) Power = Green (Connected to external power supply/PoC from transmitter); (2) RJ45 Ports = Green (Power), Orange (Receiving data from transmitter/transmitting to additional connected transceiver unit)
<b>PHYSICAL</b>	
Color	Black
Material of Construction	Metal
Mounting Location	Wall
Included Mounting Accessories	Surface mounting brackets
Number of Displays	2
Form Factor/Mounting Options	Box
Rackmountable	No
Receiver Unit Dimensions (hwd / cm.)	2.7 x 11.5 x 6.24
Receiver Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Receiver Unit Weight (kg)	0.45
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.)	1.23
Shipping Weight (kg)	0.56
Transmitter Unit Dimensions (hwd / cm.)	2.7 x 11.5 x 6.24



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Transmitter Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Transmitter Unit Weight (kg)	0.45
Transmitter Unit Weight (lbs.)	1
Unit Dimensions (hwd / in.)	2.170 x 10.240 x 6.460
Unit Packaging Type	Box
Housing	Metal
<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>COMMUNICATIONS</b>	
Max 1024 x 768 Range (ft)	230
Signal Range (ft.)	230
Signal Range (m)	70
Max 480P Range (ft)	230
Transmission Distance	230 ft
Max 1080i Range (ft)	230
Max 4K UHD Range (ft)	230
Max 480i Range (ft)	230
EDID Compatible	Yes
IR Remote Extension Support	No
RS-232 Serial Extension Support	No
Consumer Electronics Control (CEC) Supported	Yes
Latency	Zero Latency
USB Extension Support	No
<b>PORT EXPANSION</b>	
Daisy-chainable or Cascadable	Daisychain (up to 4 links)
<b>FEATURES &amp; SPECIFICATIONS</b>	
All-in-One Kit	Yes
10/100 Ethernet Extension Support	No
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	Yes



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Multi-Resolution Support	No
Built-In Equalizer	Yes
Displayport Specification	1.2a
HDCP Specification	1.4; 2.2
Driver Required	No
Recommended Category Cable	24AWG Cat6
DIN Mountable	No
<b>STANDARDS &amp; COMPLIANCE</b>	
External Power Supply Certifications	CCC; CE; GS; TUV; UL; cUL
Product Certifications	EN 55032; EN 55035; NOM (Mexico); UL Listed; cUL Listed
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS; Trade Agreements Act (TAA); UKCA; WEEE
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	1-year limited warranty

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