DisplayPort over Cat6 Receiver with Repeater, 4K, 4:4:4, Transceiver, PoC, HDCP 2.2, 230 ft. (70.1 m), TAA

MODEL NUMBER: **B127A-110-BD**

Works with Tripp Lite's DisplayPort extender kit to extend 4K video an extra 230 ft. between source and display via Cat6 cable.

Features

DisplayPort 1.2a Extender Transceiver Ideal for Digital Signage in Schools and Restaurants
This 4K transceiver 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.

Combines with DisplayPort Extender Kit to Add More Distance
The B127A-110-BD works with B127A-111-BDTD extender kit (sold separately) to further extend a 4K audio/video signal up to 230 feet (70.1 meters) with no latency. It connects between the transmitter and receiver from the extender kit with user-supplied Cat6 cabling.

Transmits Crystal-Clear 4K Video with Multi-Channel Audio and 4:4:4 Color
The B127A-110-BD supports Ultra HD resolutions up to 3840 x 2160 (4K x 2K) at 30 Hz with 7.1-channel surround sound audio through its TOSLINK port. HDCP 2.2 compliance allows you to stream 4K Amazon and Netflix content with no complications. This receiver 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.

Create a Daisy Chain to Achieve More Distance
This transceiver combines with the B127A-111-BDTD extender kit (sold separately) and additional B127A-110-BD transceivers to form daisy-chain installations up to 920 feet (280.4 meters) from the transmitter. Up to four total transceivers can be chained together, each capable of extending a 4K signal up to 230 feet per unit. In addition to the extender kit, this transceiver is also compatible with B127A-1A1-BDBD and can be used to replace any receivers in the installation as well.

Add a Signal Booster to Achieve, Yes, Even More Distance
The receiver 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 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.*

Built-In PoC Technology Provides Receiver Power to Avoid Bulky External Power Bricks
Power over Cable (PoC) technology powers the B127A-110-BD over Cat6 cable. LEDs indicate when the

Highlights

- Combines with B127A-111-BDTD to extend 4K signals up to 230 ft.
- Supports UHD resolutions up to 4K @ 30 Hz (4:4:4) for crystal-clear video
- Can be daisy-chained up to 4 times (920 ft. total) via additional B127A-110-BD transceivers
- Power over Cable (PoC) technology provides power to the transceiver via Cat6 cable
- 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 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 (computer, laptop, media server)
- Display device with DisplayPort input (HDTV, projector, monitor)
- B127A-111-BDTD DisplayPort over Cat6 Extender Kit

Package Includes

- B127A-110-BD DisplayPort over Cat6 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

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 transceiver where needed without worrying about finding a nearby AC outlet. Power is also equally distributed to any additional receivers within a daisy-chain installation.

Plug-and-Play Operation for Quick Setup and Immediate Use
The transceiver works right out of the box with no software required. Mounting hardware is included for installing it on a wall, pole or 19-inch rack. Connect the transceiver to a transmitter and any additional transceivers with user-supplied Cat6 cable (such as N202-Series). Connect to a 4K display with a user-supplied DisplayPort cable (such as P580-Series).

TAA-Compliant for GSA Schedule Purchases
The B127A-110-BD 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	037332263124
Product Type	Receiver
Technology	Cat5/5e; Cat6; DisplayPort; POC
Host Connector	RJ45 (FEMALE)

VIDEO	
Video Input	DISPLAYPORT (FEMALE)
Video Output	DISPLAYPORT (FEMALE)
Video Ports	DISPLAYPORT (FEMALE)
Video Ports Details	DisplayPort 1.2a; HDCP 2.2
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K)
Max Supported Video Resolution	3840 x 2160 (4K x 2K) @ 30 Hz
Max. Distance (Between any 2 Units)	230 ft.
Max 1280 x 720 (720p) Range (ft)	230
Max 1920 x 1080 (1080p) Range (ft)	2300
Max 1920 x 1200 Range (ft)	230
Max 2560 x 1600 Range (ft)	230
Max 3840 x 2160 (4K@30Hz) Range (ft)	230
Max 4096 x 2160 (4K) Range (ft)	230
Receiver/Transceiver Video Output	DisplayPort
Receiver - Number of Video Outputs	2
Signal Range (ft)	230
Signal Range (m)	70

Range Extension using other Tripp Lite product	170 ft. or 230 ft.
Recommended Cabling	Solid Wire 24AWG Cat6 Cables (Tripp Lite's N202-Series)
Other Tripp Lite product used to extend range	B127A-010-H Signal Booster or additional B127A-110-BD Transceivers (up to 3)
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	A single B127A-110-BD unit can be connected to a transmitter unit to reach 230 ft. When daisy-chaining multiple B127A-110-BD's (up to 4 total) each link in the chain reaches 230 ft., for a maximum distance of 920 ft. When using a B127A-010-H signal booster between the first transmitter and first B127A-110-BD in the chain in a four-link daisy-chain installation the total distance can be 1070 ft.

AUDIO

Audio Input	Displayport
Audio Output	Displayport; Toslink
Audio Specification	Pass-through audio formats including LPCM2.0/5.1/7.1; TOSLINK audio

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.)	4.53
AC Power Adapter Cord Length (m)	1.381
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 end only (Optional)
Power Over Cable (PoC) Support	Yes

USER INTERFACE, ALERTS & CONTROLS

LED Indicators	(x1) Power = Green; RJ45 (x2) Green = Unit is receiving power, (x2) Orange = signal is being sent

PHYSICAL

Color	Black
Material of Construction	Metal
Included Mounting Accessories	(2) Mounting Brackets
Number of Displays	1
Form Factor/Mounting Options	Box
Rackmountable	Yes
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
Unit Dimensions (hwd / in.)	1.063 x 4.528 x 2.457
Unit Dimensions (hwd / cm)	2.7 x 11.5 x 6.24
Unit Dimensions (hwd / mm)	27 x 115 x 62.4
Unit Packaging Type	Box
Unit Weight (lbs.)	0.55
Unit Weight (kg)	0.25

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%, Non Condensing

COMMUNICATIONS

Signal Range (ft.)	230
Signal Range (m)	70
Transmission Distance	230 ft. (70m) ; 400 ft. (121 m) with signal booster
EDID Compatible	Yes
IR Remote Extension Support	No
RS-232 Serial Extension Support	No
Consumer Electronics Control (CEC) Supported	No
Latency	0
USB Extension Support	No

CONNECTIONS

Side A - Connector 1	(2) RJ45 (FEMALE)
Side A - Connector 2	DISPLAYPORT (FEMALE)
Side B - Connector 1	TOSLINK (FEMALE)

Daisy-chainable / Cascadable	Yes
Daisy-chainable / Cascadable Details	Up to 4 Units

PORT EXPANSION	
Daisy-chainable or Cascadable	Daisychainable up to 4 layers, 230 ft. per layer

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	1.4; 2.2
Driver Required	No
Recommended Category Cable	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