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 Tripp Lite's B127A-010-H signal booster (sold separately), which allows the signal to be boosted up to 400 feet (121.9 meters) total

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

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.*

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 Tripp Lite's P580-Series). Then, connect the transceiver to the display with a user-supplied HDMI cable (such as Tripp Lite's P568- or P569-Series). Finally, connect the two units with user-supplied Cat6 cable (such as Tripp Lite's 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; HDR; 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
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	
Voltage Compatibility (VAC)	100; 110; 120; 125; 127; 200; 208; 220; 230; 240

External Power Supply Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
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
External Power Supply Input Specs (V / Hz / A)	100-240V / 50/60Hz / 0.6A
External Power Supply Output Specs (V / A)	24V/1A
External Power Supply Cord Length (ft.)	4.53
External Power Supply Cord Length (m.)	1.38
External Power Supply Certifications	CCC; CE; GS; TUV; UL; cUL

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
Included Mounting Accessories	(4) Mounting Brackets & Screws
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 / cm)	5.51 x 26.01 x 16.41
Shipping Dimensions (hwd / in.)	2.17 x 10.24 x 6.46
Shipping Weight (kg)	0.56
Shipping Weight (lbs.)	1.23
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

ENVIRONMENTAL	
Operating Temperature Range	32 to 104F (0 to 40C)
Storage Temperature Range	5 to 122F (-15 to 50C)
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

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)

FEATURES & SPECIFICATIONS	
Displayport Specification	1.2a
HDCP Specification	2.2
Driver Required	No
Recommended Category Cable	24AWG Cat6
DIN Mountable	No
Integrated/Removable Cable	No
MST Support	No

Mounting Accessory Included	Yes
Multi-Resolution Support	No
Built-In Equalizer	Yes
STANDARDS & COMPLIANCE	
Certifications	CE, FCC, RoHS, REACH
WARRANTY	
Product Warranty Period (Worldwide)	1-year limited warranty