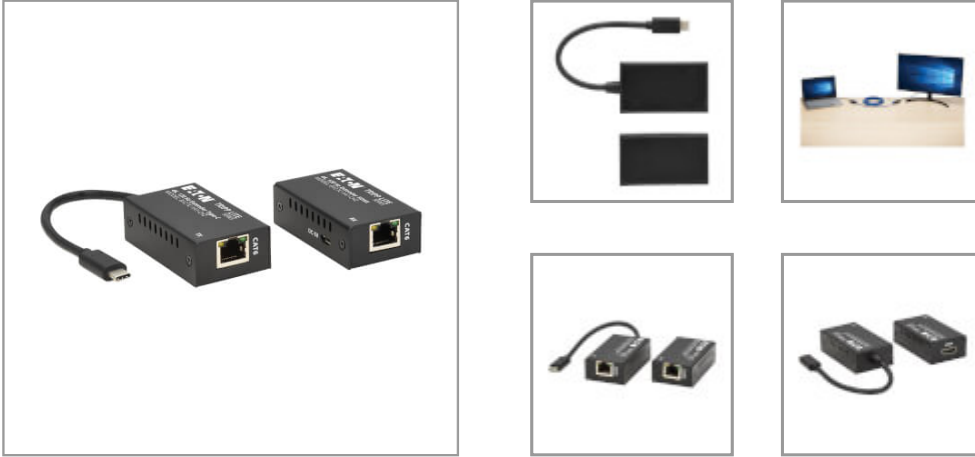# USB-C to HDMI over Cat6 Extender Kit, Transmitter/Receiver, 4K 120 Hz, HDR10, Up to 82 ft. (25 m)

MODEL NUMBER: **B127C-1A1-CH2**

Transmitter/receiver kit extends 4K audio/video from a USB-C tablet or laptop to an HDMI display over Cat6 cabling.

Features

USB-C to HDMI Extender for 4K Digital Signage or Video Presentations
This complete transmitter and receiver system is recommended for video presentations in conference rooms, schools, trade shows, meeting facilities, houses of worship, retail settings and digital signage applications where the source and display need to be farther apart than conventional A/V cables allow. The B127C-1A1-CH2 extends 4K video and stereo audio signals from a USB-C source device to an HDMI display via user-supplied Cat6 cabling.

Extends 4K Video with HDR Nearly 200 ft.
The B127C-1A1-CH2 extends an Ultra HD 4K signal at 120 Hz up to 82 feet (25 meters) with zero latency. It also extends a 4K signal at 60 Hz up to 196 feet (60 meters). This extension kit supports HDR10 (High Dynamic Range), providing a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.2 encryption allows you to stream 4K content with no loss in resolution.

Greater Distance over Cat6 Offers More Flexibility
Because Cat6 allows a longer distance between source and display than both USB and HDMI cables, you can make 4K connections in areas without network availability. The source device, such as a MacBook Pro, Windows laptop or media server, can be placed in a safe, secure location away from the display to prevent theft or tampering.

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 or external power required (an included Micro-USB cable can supply power if video transmission is unstable). The transmitter connects directly to the source device's USB-C port. The receiver connects to the video display with a user-supplied HDMI cable (sold separately). Connect a user-supplied Cat6 cable (sold separately) between the transmitter and receiver.

Specifications

Highlights

- Extends UHD 4K @ 120 Hz resolutions up to 82 ft. (25 m) via Cat6 cable
- Extends UHD 4K @ 60 Hz resolutions up to 196 ft. (60 m) via Cat6 cable
- Supports High Dynamic Range (HDR10) for richer contrast and expanded color accuracy
- Receives power through source device's USB-C port: no external power supply required
- Plug-and-play operation with no software required for easy, immediate installation

System Requirements

- Source device with USB-C output (MacBook Pro, Windows laptop, tablet, smartphone)
- Display device with HDMI input (HDTV, projector, monitor)

Package Includes

- Transmitter
- Receiver
- Micro-USB cable
- Installation Instructions

OVERVIEW	
UPC Code	037332290090
Product Type	Extender Kit
Technology	Cat6; HDMI; USB
Host Connector	USB C (MALE)

VIDEO	
Video Input	USB C (MALE)
Video Output	HDMI (FEMALE)
Number of Monitors Supported	1
Video Ports	(1) HDMI (FEMALE)
Video Ports Details	HDMI 2.0; HDCP 1.4; HDCP 2.2
Resolutions Supported	1280x720, 1280x960, 1366x768, 1440x900, 1680x1050, 1920x1080, 1920x1200, 720p@50/60Hz,1080i@50/60Hz1080p@24/25/30/50/60/120Hz2560x1440@50/60/120/144Hz3840x2160@24/25/30/50/60/100/120Hz4096x2160@24/25/30/50/60Hz
Max Supported Video Resolution	1280x720, 1280x960, 1366x768, 1440x900, 1680x1050, 1920x1080, 1920x1200, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/25/30/50/60/ 120Hz, 2560x1440@50/60/120/144Hz, 3840x2160@24/25/30/50/60/100/120Hz, 4096x2160@24/25/30/50/60Hz
Transmitter Video Input	HDMI
Transmitter - Number of Video Outputs	1
Receiver - Number of Video Outputs	1
Signal Range (ft)	4K@60Hz196-ft, 2560x1440@120/144Hz 98-ft, 4K@100/120Hz82-ft
Signal Range (m)	4K@60Hz60m, 2560x1440@120/144Hz 30m, 4K@100/120Hz25m
Recommended Cabling	Solid Wire Cat6 Cables (Eaton Tripp Lite series N202)
HDR Support	Yes
3D Video Supported	No
Maximum Signal Range (ft)	196
Maximum Signal Range (m)	60
EDID Support	Yes
Signal Transmission	Unidirectional

AUDIO	
Audio Input	USB-C
Audio Output	HDMI
Audio Specification	PCM, DTS, Dolby

INPUT	
Bus Powered	No

POWER	
Power Over Cable (PoC) Support	No
Input Voltage(s)	TX: Powered by the signal source RX: DC 5V500mA
Power Consumption Detail	TX 6W, RX 4W

PHYSICAL	
Color	Black
Material of Construction	ABS
Rackmountable	No
Receiver Unit Dimensions (hwd / in.)	(0.590 x 1.023 x 02.814)
Receiver Unit Weight (lbs.)	0.038
Shipping Dimensions (hwd / in.)	5.90 x 4.60 x 3.03
Shipping Dimensions (hwd / cm)	15.00 x 11.70 x 7.70
Shipping Weight (lbs.)	0.68
Shipping Weight (kg)	0.31
Transmitter Unit Dimensions (hwd / in.)	0.590 x 1.023 x 02.814)
Transmitter Unit Weight (lbs.)	0.037
Unit Dimensions (hwd / in.)	5.905 x 4.606 x 3.031

ENVIRONMENTAL	
Operating Temperature Range	-4 to 131°F (-20 to 55)
Storage Temperature Range	-22 to 40°F (-30 to 60)
Relative Humidity	0 to 90% RH, Non-Condensing
ESD Protection	1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2

COMMUNICATIONS	
Transmission Distance	4K@60Hz60m 2560x1440@120/144Hz 30m 4K@100/120Hz25m
EDID Compatible	No
IR Remote Extension Support	No
RS-232 Serial Extension Support	No
Consumer Electronics Control (CEC) Supported	No

FEATURES & SPECIFICATIONS	
10/100 Ethernet Extension Support	No
Integrated/Removable Cable	No
MST Support	No

Mounting Accessory Included	No
Multi-Resolution Support	Yes
HDCP Specification	1.4; 2.2
Driver Required	No
DIN Mountable	No

STANDARDS & COMPLIANCE	
Product Certifications	IEC 61000
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS; UKCA; WEEE

WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty