

4K60 USB-C Extender Kit with USB 3.2, 100W Charging and HDMI Output, 40m

Single-Cable BYOD: DP Alt Mode Video, USB 3.2 Gen 1 Data and 100W Power Delivery over CAT6a to a Remote 4K Display

MPN: EXT-USBCPD4K-40M



Turns one USB-C port on a laptop into a complete room connection up to 40m/130ft away - 4K60 video, USB 3.2 peripherals and 100W charging on a single CAT6a cable. The EXT-USBCPD4K-40M transmitter accepts a full-featured USB-C input (DisplayPort Alt Mode 1.4a, USB 3.2 Gen 1 data and Power Delivery 3.0) and the receiver delivers HDMI 2.0b at up to 4K60 4:4:4, three USB 3.2 downstream ports, de-embedded analog audio and RS-232 pass-through at the display end, so a presenter plugs in one cable and the room's display, camera, speakerphone and touch panel all come up - with the laptop charging.

Bi-directional 24V PoC powers either end from a single supply, USB 3.2 Gen 1 runs at up to 2.5 Gbps for 4K room cameras and storage, and 25 EDID presets plus an ASCII API over the SERVICE port give integrators control of HDCP, EDID and USB port power. Resolutions up to 4096x2160@60, 5120x1440@60 and 5120x2160 (50Hz 4:4:4 / 60Hz 4:2:0) are supported over HDMI, with HDR10+, Dolby Vision and HLG pass-through. Requires CAT6a U/FTP 23AWG minimum; 100W laptop charging is available when the transmitter is powered from its own 24V/7.5A supply.

USB-C In, HDMI Out DP Alt Mode 1.4a to HDMI 2.0b	4K60 4:4:4 5K2K and 5120x1440 supported	100W PD Laptop charging over USB-C	USB 3.2 Gen 1 2.5 Gbps, 3 device ports	40m / 130ft Single CAT6a, 24V PoC
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KEY FEATURES

- Full-featured USB-C source (DP Alt Mode 1.4a, USB 3.2 Gen 1, PD 3.0) up to 40m/130ft over one CAT6a
- HDMI 2.0b out up to 4K60 4:4:4 (18Gbps) HDCP 2.3; 5120x1440@60 and 5120x2160 supported
- Up to 100W USB-C Power Delivery back to the laptop over the same cable
- USB 3.2 Gen 1 up to 2.5 Gbps to three downstream ports (2x USB-A, 1x USB-C, 5V/1.5A)
- Bi-directional 24V PoC powers transmitter or receiver from one supply
- Analog audio de-embedding (3.5mm, LPCM 2CH) both ends, plus RS-232 pass-through
- HDR, HDR10+, Dolby Vision and HLG pass-through; 8/10/12-bit; 4:4:4/4:2:2/4:2:0
- ASCII API over USB-C SERVICE port: HDCP, 25 EDID presets, USB port power, firmware update
- Metal enclosures with mounting ears; IEC 61000-4-2 ESD; CE/FCC/UL certified supply

SPECIFICATIONS

USB-C Input	DP Alt Mode 1.4a video, USB 3.2 Gen 1 / USB 2.0 data, PD 3.0
USB Protocol	USB 3.2 Gen 1 / USB 2.0; up to 2.5 Gbps (5 Gbps not supported)
USB-C Charging	Up to 100W PD to source (transmitter on 24V/7.5A supply)
HDMI / HDCP	HDMI 2.0b output; HDCP 2.3 and 1.x; 18Gbps
Video Resolution	480i to 4096x2160@60; 5120x1440@50/60; 5120x2160@50/60
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
Transmission Distance	40m/130ft at 4K, 35m/115ft at 5K over CAT6a U/FTP 23AWG min
Control	RS-232 pass-through; ASCII API via SERVICE port, 115200 8N1
Dimensions	TX and RX each 4.65" x 4.37" x 1.00" (118 x 111 x 25.5mm)
Power Supply	AC 100-240V; DC 24V/7.5A included; RX by PoC or 24V/2A
Operating Temperature	32°F to 104°F (0°C to 40°C)
Certifications	CE, FCC, UL (power supply)
Package Contents	1x Receiver • 1x 24V/7.5A Power Adapter • 2x 3-pin 3.5mm Phoenix Connector • 4x Mounting Ear • 8x Machine Screw • 2x User Manual • 1x Hexagonal Copper Stud

APPLICATIONS

Huddle Rooms One USB-C cable runs the room	Hot Desks Any laptop plugs into one cable	BYOD Rooms Any brand laptop drives the display	Conference Rooms Display and camera across the room	Presentation Spaces 4K60 to a display 130ft away
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