

4K60 USB-C to USB-C Extender Kit with USB 3.2, 100W Charging and Touch Return, 40m

One USB-C Cable at the Lectern, One at the Interactive Display: DP Alt Mode Video, USB 3.2 Gen 1 Data and 100W Power Delivery over CAT6a

MPN: EXT-USBC2C4K-40M



Extends a laptop's USB-C port to a USB-C interactive display or monitor up to 40m/130ft away - 4K60 video, USB 3.2 data and touch return on one CAT6a cable, with 100W charging at the desk. The EXT-USBC2C4K-40M transmitter accepts a full-featured USB-C input (DisplayPort Alt Mode 1.4a, USB 3.2 Gen 1 data, Power Delivery 3.0) and the receiver delivers a full-featured USB-C output - DP Alt Mode 1.4a video plus USB 3.2 Gen 1 data on the same connector - so a SMART, Promethean, ViewSonic, BenQ, Dell or LG interactive panel plugs in with a single USB-C cable and its touch, camera and hub come back to the presenter's laptop. Three more USB 3.2 downstream ports, de-embedded analog audio and RS-232 pass-through sit at the display end.

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 cameras and touch, 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) pass over the USB-C link with HDR10+, Dolby Vision and HLG. Requires CAT6a U/FTP 23AWG minimum; 100W laptop charging is available when the transmitter is powered from its own 24V/7.5A supply. For HDMI displays and projectors use EXT-USBCPD4K-40M.

USB-C In, USB-C Out DP Alt Mode 1.4a both ends	Touch Return USB 3.2 data on the display USB-C	4K60 4:4:4 5K2K and 5120x1440 supported	100W PD Laptop charging over USB-C	40m / 130ft Single CAT6a, 24V PoC
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KEY FEATURES

- Full-featured USB-C in and USB-C out on one CAT6a, up to 40m/130ft at 4K, 35m/115ft at 5K
- Interactive displays connect with a single USB-C cable and touch returns to the laptop
- Up to 4K60 4:4:4 (18Gbps) with HDCP 2.3; also 5120x1440@60 and 5120x2160
- Up to 100W USB-C Power Delivery back to the laptop over the same cable
- Three USB 3.2 Gen 1 downstream ports at the receiver (2x USB-A, 1x USB-C); up to 2.5 Gbps
- Bi-directional 24V PoC: power either end and the far end needs no supply
- Analog audio de-embedding at both ends plus RS-232 pass-through
- HDR, HDR10+, Dolby Vision and HLG pass-through; 8/10/12-bit color
- ASCII API over USB-C SERVICE port: HDCP, 25 EDID presets, USB port power, firmware update

SPECIFICATIONS

USB-C Input (TX)	DP Alt Mode 1.4a video, USB 3.2 Gen 1 and USB 2.0 data, PD 3.0
USB-C Output (RX)	DP Alt Mode 1.4a video and USB 3.2 Gen 1 data on one connector
USB Protocol	USB 3.2 Gen 1 and USB 2.0; up to 2.5 Gbps (5 Gbps not supported)
USB-C Charging	Up to 100W PD to the source (from 24V/7.5A supply)
Video / HDCP	DisplayPort 1.4a Alt Mode; HDCP 2.3 and HDCP 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
ESD Protection	IEC 61000-4-2: +/-8kV air-gap, +/-4kV contact
Dimensions	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); far end via PoC
Certifications	CE, FCC, UL (power supply)
Package Contents	1x Transmitter (USB-C IN) • 1x Receiver (USB-C OUT) • 1x 24V/7.5A power adapter • 2x 3-pin 3.5mm phoenix connector • 4x Mounting ear • 8x Machine screw • 1x User manual

APPLICATIONS

Interactive Displays single USB-C cable with touch return	Classrooms lectern laptop to the board	Huddle Rooms BYOD USB-C to the panel	Meeting Rooms 4K60 video, data and charging	USB-C Monitors extend video and data to 40m
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