

5Gbps Dual-Host USB-C Extender over CAT6a (100m/328ft) with Dual 4K HDMI Out

TX/RX Kit with 100W USB-C PD Charging, Balanced/Unbalanced Audio Output, RS-232 & FSYNC GPIO

MPN: EXT-USBCPD2X4K-100M



Extend two USB-C host laptops to a remote location up to 100 meters away — with dual 4K displays, USB peripherals, balanced audio, and 100W charging over a single CAT6a cable. The KanexPro EXT-USBCPD2X4K-100M is a 5Gbps USB 3.2 dual-host extender that replaces complex multi-cable runs with one clean infrastructure link, delivering everything a remote docking station needs for conference rooms, lecture halls, control rooms, and medical imaging suites.

The transmitter accepts two selectable USB-C hosts with auto or manual switching and up to 100W PD charging (1×100W or 2×50W). At the receiver, dual HDMI outputs drive two displays at up to 4K@60Hz while balanced/unbalanced analog audio de-embedding feeds professional sound systems directly. USB 3.2 peripherals connect at the far end at full 5Gbps. RS-232 pass-through and FSYNC GPIO enable third-party control system integration. Bi-directional 24V PoC eliminates the need for power at both ends.

 5Gbps USB 3.2 over CAT6a 100m	 Dual Host Auto/Manual USB-C Switch	 100W PD USB-C Laptop Charging	 Dual 4K HDMI 2.0b 4K@60Hz Out	 Control RS-232 & FSYNC GPIO
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KEY FEATURES

- Extends USB 3.2 signals at 5Gbps up to 100m/328ft over a single CAT6a cable via HDBaseT
- Dual USB-C host inputs on TX with auto/manual switching — supports two-laptop redundancy or presenter handoff
- USB-C PD charging up to 100W (1×100W or 2×50W) — powers laptops directly from the transmitter
- Dual HDMI 2.0b outputs on RX at up to 4K@60Hz — mirror or extend displays with HDCP 2.2 compliance
- Balanced and unbalanced analog audio de-embedding on RX (LPCM 2CH, sample rate 32–192kHz) via 5-pin phoenix connector
- Three downstream USB device ports on each unit (1× USB-C + 2× USB-A on TX; 1× USB-C + 2× USB-A on RX) for webcams, PTZ cameras, keyboards, and touch panels
- RS-232 pass-through on both TX and RX for third-party control system integration
- FSYNC GPIO pass-through for industrial camera synchronization (default level range 0–5V)
- Bi-directional 24V PoC — power either TX or RX, the other unit is powered over the CAT6a link

SPECIFICATIONS

USB Standard	USB 3.2 Gen 1 (5Gbps)
Video Output	Dual HDMI 2.0b • Up to 4K@60Hz • HDCP 2.2
USB-C PD	100W (1 host) or 50W each (2 hosts)
Audio De-embed	Balanced (2Vrms) / Unbalanced (1Vrms) • LPCM 2CH • 32–192kHz
USB Devices	TX: 1× USB-C + 2× USB-A • RX: 1× USB-C + 2× USB-A
Extension	Up to 100m/328ft over CAT6a (HDBaseT USB3)
Control	RS-232 (3-pin phoenix) • FSYNC GPIO • API (RS-232)
Power	TX: DC 24V/7.5A • RX: DC 24V/3.75A • Bi-directional 24V PoC
Enclosure	Metal • Black • TX: 245×135×44mm • RX: 245×135×44mm
Environment	0–40°C • 10–90% RH (non-condensing)

PACKAGE CONTENTS

1× TX Unit • 1× RX Unit • 2× DC 24V Power Adapters • 2× Power Cables • 2× Mounting Brackets • 1× Product Manual



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