

5Gbps USB-C 3.2 Gen 1 Extender over CAT6a (100m/328ft)

TX/RX Kit with Bi-Directional 24V PoC, RS-232 Pass-Through & FSYNC GPIO Support

MPN: EXT-USBC-100M



Extend USB 3.2 Gen 1 signals up to 100 meters over a single CAT6a cable — with bi-directional Power over Cable that eliminates the need for a power supply at the remote end. The KanexPro EXT-USBC-100M is a transmitter/receiver USB extender kit that delivers 5Gbps USB-C and USB-A connectivity to remote locations using standard network infrastructure, ideal for conference rooms, classrooms, digital signage, and industrial camera installations.

The transmitter connects to a host PC via USB-C and provides one USB-C and two USB-A device ports locally. The receiver extends an additional two USB-C and two USB-A device ports at the far end — supporting webcams, PTZ cameras, keyboards, mice, microphones, printers, and flash drives. RS-232 pass-through enables control system integration at both ends, while FSYNC GPIO support synchronizes industrial cameras. Bi-directional 24V PoC powers either unit through the CAT6a link. Plug-and-play with no drivers required.

 5Gbps USB 3.2 Gen 1	 100m CAT6a Extension	 PoC Bi-Directional 24V	 RS-232 Pass-Through	 FSYNC GPIO Sync
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KEY FEATURES

- Extends USB 3.2 Gen 1 signals up to 100m/328ft over a single CAT6a (F/FTP) cable at data rates up to 5Gbps
- USB-C host connection on transmitter with one USB-C and two USB-A downstream device ports
- Receiver provides two USB-C device ports (1x 5V/1.5A, 1x 5V/1A) and two USB-A device ports (1x 5V/1.5A, 1x 5V/1A)
- Backwards compatible with USB 2.0 and USB 1.1 devices
- Bi-directional 24V PoC (Power over Cable) — power either TX or RX; the other unit is powered through the CAT6a link
- RS-232 pass-through via 3-pin phoenix connectors on both TX and RX for control system integration
- FSYNC GPIO pass-through (0–5V) for industrial camera synchronization
- Hardware acceleration for isochronous and bulk USB transfers
- Plug-and-play — no drivers, downloads, or software required; compact metal enclosure with mounting ears

SPECIFICATIONS

USB Protocol	USB 3.2 Gen 1 • USB 2.0/1.1 backwards compatible
Transmission Rate	Up to 5Gbps
Extension Distance	100m/328ft via CAT6a (F/FTP)
TX Ports	1x USB-C Host • 1x USB-C Device • 2x USB-A Device
RX Ports	2x USB-C Device • 2x USB-A Device
Extension Link	1x HDBT-USB3 (RJ45) per unit • 24V PoC
Control	RS-232 (3-pin phoenix) • FSYNC GPIO (1-pin phoenix)
ESD Protection	IEC 61000-4-2: ±8kV air • ±4kV contact
Enclosure	Metal • Black • 100 × 85 × 25.5 mm per unit
Weight	TX: 265g • RX: 275g
Power	AC 100–240V → DC 24V/3.75A • TX+RX: 68W max

PACKAGE CONTENTS

1x Transmitter • 1x Receiver • 1x 24V/3.75A Locking Power Supply • 2x Phoenix Connectors • 4x Mounting Ears • 8x Machine Screws • 1x Product Manual



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