

# EX-USB3-100-10

USB 3.2 Gen 1 (5 Gbps) Extender over HDBaseT with 100m (328ft) Range, PoC



## > Product Description

The Netvio EX-USB3-100-10 is a professional USB 3.2 Gen 1 extender designed to deliver full 5 Gbps SuperSpeed connectivity up to 100 m (328 ft.) over Cat6A cabling.

With support for a wide range of peripherals including webcams, PTZ cameras, interactive displays, and external storage, it provides the bandwidth and reliability required for today's high-performance AV and IT environments.

Featuring dual-mode PoC, installers can power the system from either the transmitter or receiver for added flexibility. Compact, plug-and-play, and fully backward compatible with USB 2.0/1.1, the EX-USB3-100-10 is the ideal solution for extending USB in conferencing, education, enterprise, and pro AV installations.

## > Product Features

- USB 3.2 Gen 1 SuperSpeed Extension – Delivers full 5 Gbps USB performance up to 100 m (331 ft) over Cat6, Cat6aA (70 m over Cat6).
- Plug & Play Simplicity – No drivers or software required; hardware acceleration ensures stable performance across Windows, macOS, and Linux.
- Flexible Power Options – Dual-mode PoC design allows power from either the transmitter (TX) or receiver (RX) with the included 24 V / 2 A PSU.
- Versatile USB Connectivity – Receiver provides 2 × USB-A and 2 × USB-C ports, each with dedicated 1.0 A & 1.5 A power outputs for peripherals and charging.
- RS-232 & FSYNC Pass-Through – Ensures seamless device control and synchronization for advanced AV/IT integration.
- Durable, Professional Design – Compact metal enclosure built for reliability in residential, commercial, and IT environments.
- Universal Applications – Ideal for video conferencing, PTZ cameras, interactive classrooms, digital signage, storage expansion, and professional AV systems.
- Broad Compatibility – Fully backwards compatible with USB 3.1, 3.0, 2.0, and 1.1 devices, supporting a wide range of peripherals.

## > Specifications

### USB Protocol

- USB 3.2 Gen 1 (5 Gbps) SuperSpeed
- Backwards compatible with USB 3.1, 3.0, 2.0 & 1.1

### Transmission

- Distance: up to 100 m (331 ft) over Cat6A
- Distance: up to 70 m (231 ft) over Cat6
- Hardware acceleration for stable performance

### Connectivity

- Transmitter (TX):
  - 1 × USB-B host input
  - 1 × HDBaseT (RJ45) output
  - 1 × RS-232 (3-pin Phoenix)
  - 1 × USB-C service/update port

### • Receiver (RX)

- 1 × HDBaseT (RJ45) input
- 2 × USB-A ports (1.0 A & 1.5 A)
- 2 × USB-C ports (1.0 A & 1.5 A)
- 1 × RS-232 (3-pin Phoenix)
- 1 × USB-C service/update port

### • Power

- Input: 100–240 V AC, 50/60 Hz
- Output: 24 V DC / 2 A (PSU included)
- Dual-Mode PoC: power from either TX or RX
- Power consumption: up to 40 W

### • Mechanical

- Enclosure: Metal, black finish
- Dimensions: 100 × 85 × 25.5 mm (3.94 × 3.35 × 1.0 in) [TX & RX]
- Weight: TX 253 g / RX 260 g
- Package dimensions/weight: 255 × 155 × 80 mm; ~1.05 kg

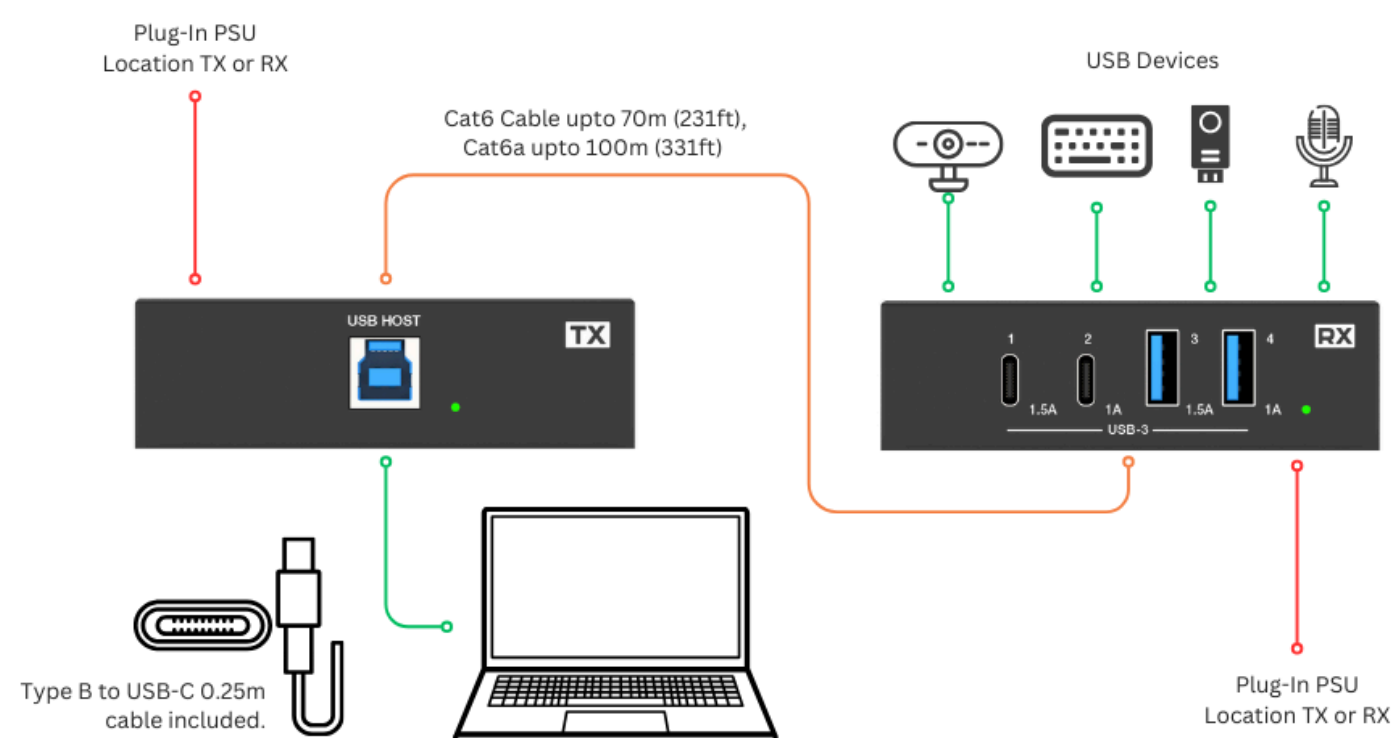
### • Environmental

- Operating: 0–40 °C (32–104 °F)
- Storage: –20–60 °C (–4–140 °F)
- Humidity: 20–90% RH, non-condensing
- ESD protection: ±8 kV (air gap), ±4 kV (contact)

### • Compliance & Warranty

- CE, UKCA, RoHS
- 5-Year Warranty (subject to terms & conditions)

## > Wiring Diagram



## > What's Included

- 1 × Transmitter (TX)
- 1 × Receiver (RX)
- 1 × USB-B to USB-C cable (0.25 m)
- 1 × 24 V / 2 A power adapter
- 2 × Phoenix connectors (RS-232 & FSYNC)
- 1 × Mounting hardware kit (4 ears, 8 screws)
- 1 × User Information

## > A&E Description

### Architects & Engineers Specification – Netvio EX-USB3-100-10

The extender shall provide point-to-point USB 3.2 Gen 1 (5 Gbps SuperSpeed) extension up to 100 meters (328 feet) over a single Cat6A cable. The system shall consist of a transmitter and receiver pair housed in compact metal enclosures.

The extender shall support USB 3.2 Gen 1 bandwidth of 5 Gbps, fully backward compatible with USB 2.0 and USB 1.1 devices. It shall provide sufficient performance for webcams, PTZ cameras, external storage, collaboration tools, and other high-bandwidth peripherals.

The transmitter shall provide one USB-B host connection. The receiver shall provide two USB-A ports and two USB-C ports, each with dedicated current output (1.0 A and 1.5 A). Both transmitter and receiver shall include a USB-C service port for firmware updates.

The extender shall support dual-mode Power over Cable (PoC), allowing either the transmitter or the receiver to be powered by the included 24 V DC adapter.

The extender shall provide LED indicators for power and link status.

The product shall be the Netvio EX-USB3-100-10 USB 3.2 Gen 1 Extender.