

EX-HT2-USB2-0201-10

4K60 4:4:4 HDMI & USB-C Extender with USB 2.0 KVM to 70m (231ft).



> Product Description

The Netvio EX-HT2-USB2-0201-10 is a professional HDBaseT 2.0 extender designed to deliver uncompressed 4K60 4:4:4 video, USB 2.0 pass-through, and flexible HDMI/USB-C input switching up to 70 m (230 ft.) over a single Cat6/6A cable.

With full support for HDR10, Dolby Vision, and HLG, plus integrated USB KVM functionality, it provides seamless connectivity for laptops, peripherals, cameras, and interactive displays.

Additional features such as audio de-embedding, bi-directional IR and RS-232 control, and PoC (Power over Cable) make it an installer-friendly solution for modern collaboration, education, and enterprise AV applications.

> Product Features

- Uncompressed 18 Gbps video – Supports HDMI 2.0b and USB-C up to 4K60 4:4:4, HDR10, HDR10+, Dolby Vision, and HLG.
- Long-distance extension – Up to 100 m (328 ft) 4K/HDR via Cat6A, or 150 m (492 ft) at 1080p (Long Reach Mode).
- USB-C power & data – Single cable delivers A/V + USB 2.0 + 60 W charging for laptops and tablets.
- Flexible switching – Select between HDMI or USB-C input, with auto/manual switching modes.
- Full USB 2.0 support – Connect cameras, storage, printers, or touchpanels with TX host + 5 device ports.
- Audio options – 3.5 mm analog audio de-embedding on both TX & RX.
- Control integration – RS-232 and bi-directional IR pass-through for system automation.
- PoC simplicity – Bi-directional 24 V Power over Cable; power from TX or RX.
- Installer-friendly – Advanced EDID management, compact metal enclosures, mounting ears included.

> Specifications

Video & Audio

- Max Resolution: 4K@60Hz 4:4:4 (HDMI 2.0b, 18Gbps)
- HDR Support: HDR10, HDR10+, Dolby Vision, HLG
- Audio (HDMI/USB-C/HDBT): LPCM 2/5.1/7.1, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DSD
- Analog Audio Output: LPCM 2CH (3.5mm stereo)

Transmission Distances

- Standard Mode: Up to 100m (328ft) – 4K60/4K30/1080p

USB

- USB 2.0 compliant
- TX: 1x USB Host (Type-B), 3x USB Device (Type-A, 500mA each)
- RX: 2x USB Device (Type-A, 1000mA each).

Control

- RS-232 pass-through (3-pin Phoenix)
- Bi-directional IR (20–60KHz)
- EDID management
- API control via RS-232 or micro USB

Connectivity

Transmitter (TX)

- Inputs
 - 1 × HDMI IN
 - 1 × USB-C IN
- Outputs
 - 1 × HDBT OUT (RJ45)
 - 1 × HDMI LOOP OUT
- USB
 - 1 × USB-B (Host)
 - 2 × USB-A (Device)
- Control & Audio
 - 1 × RS-232 (Phoenix)
 - 1 × IR IN / 1 × IR OUT
 - 1 × L/R Analog Audio OUT (3.5 mm)
- Power
 - 1 × 24 V DC input (PoC capable)

Environmental

- Operating Temp: 0°C–40°C (32°F–104°F)
- Storage Temp: -20°C–60°C (-4°F–140°F)
- Humidity: 20–90% RH (non-condensing)

Receiver (RX)

- Inputs
 - 1 × HDBT IN (RJ45)
- Outputs
 - 1 × HDMI OUT
- USB
 - 2 × USB-A (Device)
- Control & Audio
 - 1 × RS-232 (Phoenix)
 - 1 × IR IN / 1 × IR OUT
 - 1 × L/R Analog Audio OUT (3.5 mm)
- Power
 - 1 × 24 V DC input (PoC capable)

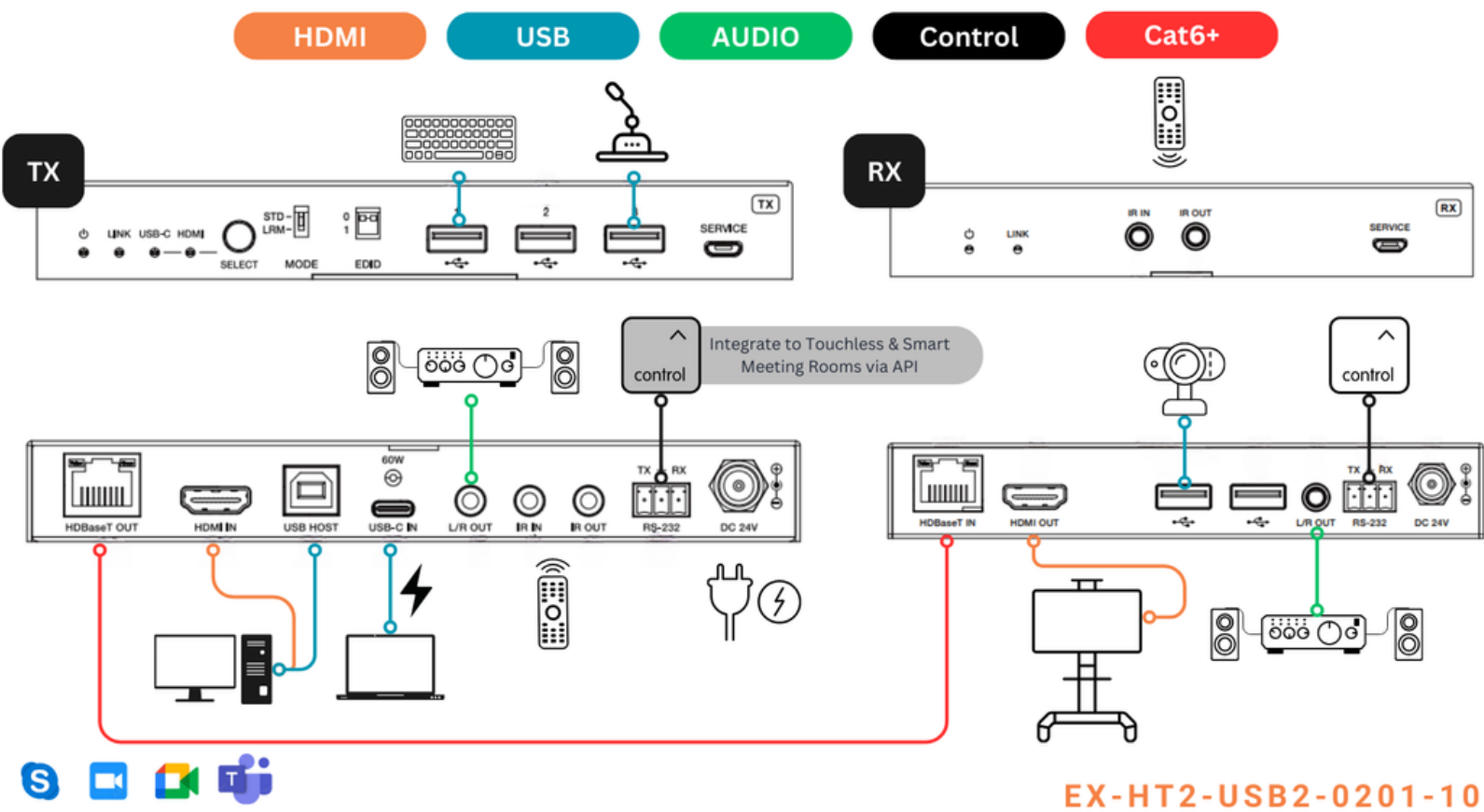
Power

- Supply: 24V DC, 3.75A (US/EU plug, CE/FCC/UL)
- Consumption: Max 97.92W (with 60W USB-C charging + PoC)
- PoC: Bi-directional 24V

Mechanical

- TX Size: 170×102×22mm (6.69×4.02×0.87in) – 491g (1.08lb)
- RX Size: 144×78×23mm (5.67×3.07×0.91in) – 334g (0.74lb)
- Metal enclosure, black finish

> Wiring Diagram



> What's Included

- Transmitter (TX) & Receiver (RX)
- 24 V/3.75 A power supply
- 1 × IR blaster & 1 × IR receiver cable (1.5 m each)
- 2 × Phoenix connectors (RS-232)
- Mounting ears & screws
- User information

> A&E Description

Architects & Engineers Specification – Netvio EX-HT2-USB2-0201-10

The extender shall provide point-to-point transmission of HDMI video, USB-C video, and USB 2.0 peripheral signals up to 70 meters (230 feet) over a single Cat6/6A cable. The system shall consist of a transmitter and receiver pair housed in compact metal enclosures.

The transmitter shall provide one HDMI input, one USB-C input, and one HDMI loop-out for local monitoring. The receiver shall provide one HDMI output. Both units shall support uncompressed 4K60 4:4:4 video with HDR10, Dolby Vision, and HLG, compliant with HDMI 2.0b and HDCP 2.2.

The system shall support USB 2.0 pass-through with KVM functionality, allowing connection of devices such as keyboards, mice, webcams, storage, and interactive displays. The transmitter shall provide one USB-B host port and two USB-A device ports, and the receiver shall provide two USB-A device ports.

The extender shall include analog audio de-embedding via 3.5 mm stereo output, bi-directional RS-232, and bi-directional IR pass-through. Power shall be supplied by a 24 V DC adapter with bi-directional Power over Cable (PoC) capability, allowing either the transmitter or receiver to be powered.

The product shall be the Netvio EX-HT2-USB2-0201-10 HDMI & USB-C Extender with USB 2.0 KVM.