

EX-2CH-300-10

Analog & Digital Audio Extender (300m)



> Product Description

The Netvio EX-2CH-300-10 is a high-performance stereo audio extender designed for long-distance transmission over Cat6/6A cabling. Supporting distances of up to 300m, it delivers uncompressed, full-range analog audio with absolute clarity and reliability.

Featuring simple plug-and-play installation and PoC (Power over Cable) convenience, the EX-2CH-300-10 provides installers with a robust, cost-effective solution for extending audio between remote zones without signal loss or degradation. Compact, durable, and engineered for professional environments, it is ideal for residential multi-room systems, commercial spaces, hospitality, and education projects where audio distribution is essential.

> Product Features

- 300 m (990 ft) Distance — Extend audio up to 300 m at 48 kHz sampling rates over CAT5e/6 cable.
- Multiple Audio Formats — Supports LPCM 2.0/5.1, Dolby Digital 2/5.1CH, DTS, and Dolby Digital Plus.
- Selectable Outputs — Receiver provides analog stereo output or direct optical SPDIF, selectable by switch.
- Built-in DAC — Converts digital optical audio into analog stereo at the receiver when required.
- PoC Powered — Bidirectional Power over Cable means only one side requires Micro-USB power.
- Compact & Durable — Metal housing ensures reliable long-term use in demanding environments.
- Reliable Performance — Maintains audio integrity over long distances without loss.

> What's Included

- 1 × Transmitter (TX)
- 1 × Receiver (RX)
- 1x Regional USB Power Adaptor
- 2 × Micro-USB power cables
- 1 × User Information

> Specifications

Audio

- Transmission Distance: 300 m @ 48 kHz; 150 m @ 96 kHz; 100 m @ 192 kHz
- Audio Inputs (TX): 1 × Optical SPDIF (Toslink), 1 × RCA L/R Analog
- Audio Outputs (RX): 1 × Optical SPDIF, 1 × RCA L/R Analog (with selector)
- Audio Support: LPCM 2.0/5.1, Dolby Digital, DTS, Dolby Digital Plus
- Sample Rates: 32–192 kHz @ 24-bit resolution

Power

- Power: PoC bidirectional; Micro-USB optional (max 1.5 W)

Mechanical

- Housing: Metal, black finish
- Dimensions (W × H × D): 90 mm × 72 mm × 20 mm (3.5" × 2.8" × 0.8")
- Weight: 174 g (0.38 lbs) each

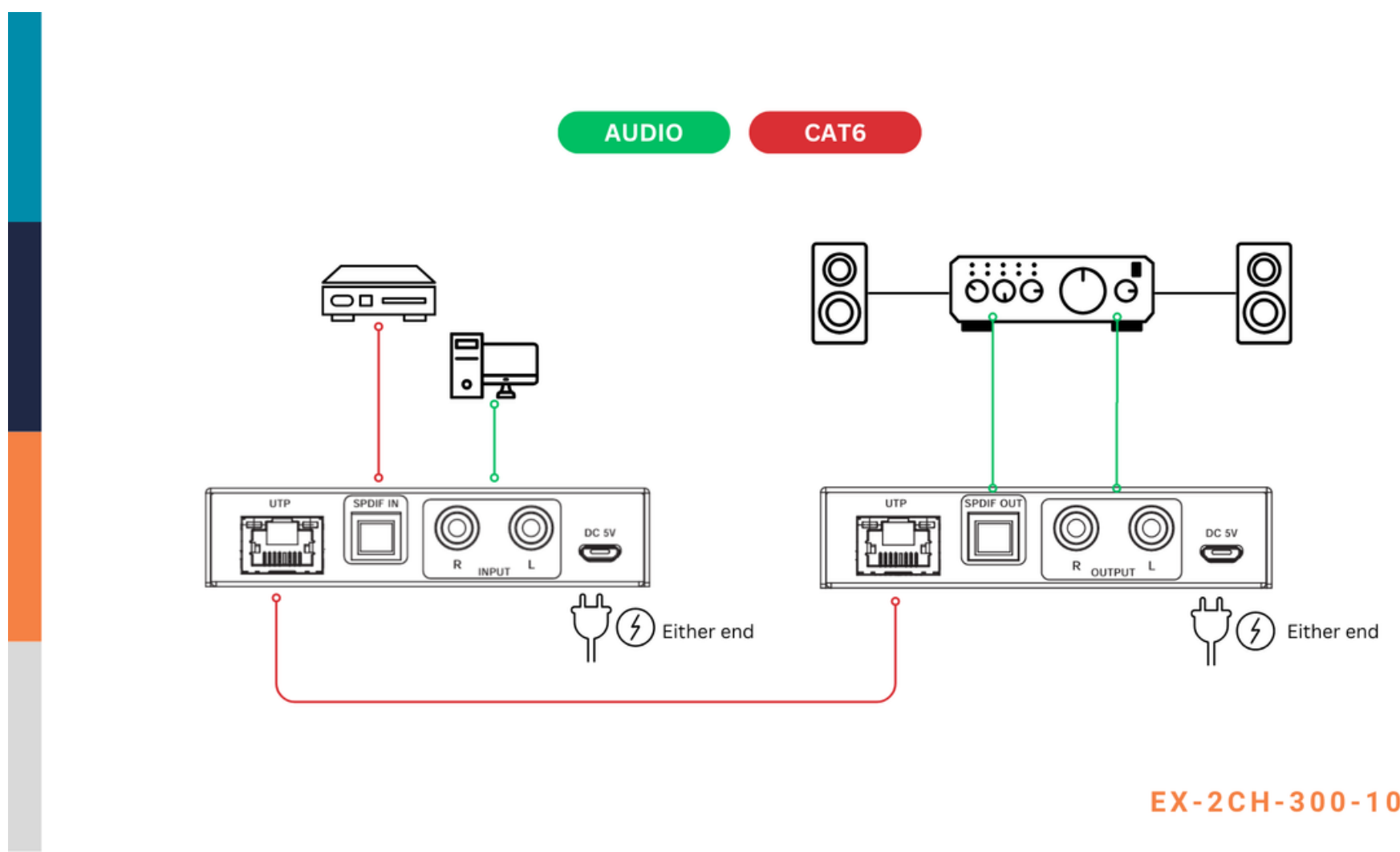
Environmental

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

Compliance & Warranty

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

> Wiring Diagram



> M&E Description

Architects & Engineers Specification — Netvio EX-2CH-300-10

The extender shall be a point-to-point stereo audio extension system capable of transmitting uncompressed analog stereo signals up to 300 meters (984 feet) over a single Cat6/6A cable. The extender shall consist of a transmitter and receiver pair housed in compact, durable metal enclosures.

The extender shall support full-bandwidth analog stereo audio without compression, ensuring zero signal loss across the maximum specified distance. Power shall be provided via a single external power supply with Power over Cable (PoC) functionality, allowing either the transmitter or receiver to be powered while delivering power to the opposite end through the Cat6/6A link.

The extender shall provide plug-and-play operation with no configuration required and shall include bi-directional IR and RS-232 pass-through for system control where specified. Status LEDs shall be provided for power and link indication. The product shall be the Netvio EX-2CH-300-10 stereo audio extender.