

4K HDMI/eARC over HDBaseT 3.0 Extender (70m)

TX/RX Kit with eARC/ARC Pass-Through, Bi-Directional IR, RS-232 & 24V PoC

MPN: EXT-HD4KEARC-70M



Extend 4K HDMI and eARC/ARC signals over a single CAT6A/7 cable — up to 40m at 4K60 4:4:4 or 70m at 4K30/1080p — with no second cable run for audio return. The KanexPro EXT-HD4KEARC-70M eliminates the need for a separate cable to return audio from a remote TV back to a local AV receiver or soundbar. Built on the HDBaseT 3.0 VS310 chipset with HDCP 2.3 compliance, it supports HDR10+, Dolby Vision LLM, and HLG alongside Dolby Atmos, DTS:X, and DTS-HD Master Audio.

The transmitter accepts an HDMI source and outputs over HDBaseT to the receiver at the display end; eARC/ARC audio from the connected TV returns over the same link to deliver to an AVR or soundbar. Bi-directional IR and RS-232 pass-through enable full source and display control from either end. Bi-directional 24V PoC allows a single power supply to power both TX and RX units.

 <p>eARC/ARC Audio Return Pass-Through</p>	 <p>HDBaseT 3.0 4K60 • 40m 4K30 • 70m</p>	 <p>18Gbps HDCP 2.3 4K60 4:4:4</p>	 <p>Atmos Dolby Atmos DTS:X • DSD</p>	 <p>PoC Bi-Directional 24V Single PSU</p>
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KEY FEATURES

- HDBaseT 3.0 VS310 chipset — extends uncompressed 4K60 4:4:4 up to 40m and 4K30/1080p up to 70m over a single CAT6A/7 cable
- eARC/ARC pass-through returns high-bitrate audio from the remote TV to a local AV receiver or soundbar over the same CAT cable — no second cable required
- HDCP 2.3 compliant, 18Gbps; HDR10, HDR10+, Dolby Vision LLM, and HLG pass-through
- Full HD audio pass-through: LPCM, Dolby Atmos, Dolby TrueHD, DTS:X, DTS-HD Master Audio, and DSD
- Bi-directional 24V PoC — one PSU at either end powers both TX and RX; PoC on/off switch on each unit
- Bi-directional IR pass-through (20–60kHz, 12V) with included IR blaster and receiver cables
- RS-232 pass-through for control system integration; USB-C service port (TX & RX) for firmware and API commands
- Compact metal enclosure (144×78×23mm) with LED link & signal indicators; mounting ears included

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b • HDCP 2.3
Video Bandwidth	18 Gbps
HDBaseT Version	HDBaseT 3.0 (VS310) • 16 Gbps
Video Resolution	Up to 4K2K @ 60 Hz (4:4:4)
Color Depth	8/10/12-bit
HDR Formats	HDR10 • HDR10+ • Dolby Vision LLM • HLG
Audio	LPCM, DD/Plus/EX, TrueHD, Atmos, DTS, DTS-HD MA, DSD; eARC/ARC pass-through
Distance — 4K60	Up to 131 ft / 40m (CAT6A/7)
Distance — 4K30/1080p	Up to 230 ft / 70m (CAT6A/7)
TX I/O	1× HDMI IN (eARC/ARC) • 1× HDBaseT OUT (RJ45)
RX I/O	1× HDBaseT IN (RJ45) • 1× HDMI OUT (eARC/ARC)
Control (TX & RX)	RS-232 (3-pin phoenix) • SERVICE (USB-C) • IR IN/OUT (3.5mm)
PoC	Bi-directional 24V • Single 24V/1A PSU powers both units
Power	AC 100–240V → DC 24V/1A • 11W total
Enclosure	Metal • Black • 144 × 78 × 23 mm • TX: 308g, RX: 307g
Environment	32–104°F (0–40°C) • 20–80% RH

PACKAGE CONTENTS

- 1× TX (Transmitter) • 1× RX (Receiver) • 2× 3-pin 3.5mm Phoenix Connector • 1× 24V/1A Locking Power Supply • 4× Mounting Ears • 8× Machine Screws • 1× IR Blaster Cable (1.5m) • 1× IR Receiver Cable (1.5m) • 1× User Manual