

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



1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators specifying 4K installations where eARC/ARC audio return is required — home theater integration, commercial AV with soundbar/AVR, or any install where a second audio cable run is undesirable.

THE CHALLENGE

Standard 4K HDBaseT extenders pass HDMI video in one direction but cannot return eARC/ARC audio from the remote TV back to a local AV receiver. A separate audio cable run has historically been required.

THE KANEXPRO ADVANTAGE

HDBaseT 3.0 VS310 chipset with true eARC/ARC pass-through over the same CAT6A/7 cable — no second cable. Bidirectional 24V PoC from either end. USB-C service port for firmware updates and API. Compact 144×78×23mm metal enclosure with mounting ears.

2 PRODUCT POSITIONING

EXT-HD4KEARC-70M is the 4K/eARC HDBaseT kit for AV integrators who need high-bitrate audio return from a remote TV to a local AV receiver over the same single-cable run as the video signal.

3 APPLICATIONS



Home Theater AV

Extend 4K60 from a rack-mounted AV receiver to a remote TV and return Dolby Atmos/DTS:X audio back over the same CAT cable — no second run needed.



Corporate AV

Drive 4K boardroom displays from a source rack and return ARC audio to a local DSP or soundbar without an additional audio cable run.



Education

Connect classroom media equipment to a remote display and return TV audio to an in-room amplifier over existing CAT6A infrastructure.



Hospitality

Central rack to in-room 4K displays with eARC audio return for AVR-based room audio systems; single cable per room.



Healthcare

Patient room AV extension with audio return for bedside entertainment systems — clean single-cable install behind the headwall.



Digital Signage

Extend 4K player output to a display and return audio to a local speaker system without a separate audio cable.

4 WHO THIS IS FOR

AV Integrators

Corporate AV

Education

Hospitality

Healthcare

Digital Signage

Ideal User

Custom AV integrator (CEDIA), A/V systems designer, or IT/AV manager specifying eARC-capable signal distribution.

Project Types

Residential home theater, corporate AV, hospitality (hotel rooms), healthcare, higher education.

Typical Buyer

AV integrator (specifier), homeowner/AV director (approver).

5 KANEXPRO PRODUCT COMPARISON

The EXT-HD4KEARC-70M is KanexPro's 70m eARC-capable HDBaseT kit:

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
EXT-HDBT3ARC-100M	Extenders > HDMI Pro	Both have eARC/ARC	EXT-HDBT3ARC-100M: extends to 100m, adds USB 2.0 and Ethernet pass-through; higher price
EXT-HDBT70M	Extenders > HDMI Pro	Both 70m HDBaseT kits	EXT-HDBT70M: no eARC/ARC; simpler feature set; lower price (\$299.95)
EXT-HD8K-150M	Extenders > HDMI Pro	Both HDBaseT kits	EXT-HD8K-150M: 8K/HDMI 2.1 input, 150m, no eARC; audio de-embedded on TX+RX

► See positioning statement above.

6 FREQUENTLY ASKED QUESTIONS

Q: Does eARC carry Dolby Atmos and DTS:X?

Yes. eARC supports full high-bitrate audio including Dolby TrueHD/Atmos, DTS-HD Master Audio, and DTS:X — unlike ARC which is limited to Dolby Digital 5.1 and DTS.

Q: Can I use just the ARC function if my TV doesn't support eARC?

Yes. The kit is backward compatible with standard ARC up to 5.1CH audio formats.

Q: What is the maximum 4K60 distance?

131 ft / 40 m for 4K60 4:4:4 over CAT6A/7. Up to 230 ft / 70 m for 4K30 or 1080p.

Q: Can I power this from one end only?

Yes. Bidirectional 24V PoC allows TX or RX to be powered; the other draws power over the CAT cable.

Q: What is the USB-C port for?

Firmware updates and API commands via virtual RS-232 at 115200 baud, 8N1. Not for USB signal pass-through.

Q: Does it work with third-party control systems?

Yes. Bidirectional RS-232 via 3-pin 3.5mm phoenix connector is compatible with Crestron, AMX, Extron, and other major control systems.

Q: Why this over the KanexPro EXT-HDBT3ARC-100M?

EXT-HD4KEARC-70M is \$300 less at 70m. For installs under 70m that don't need USB or Ethernet pass-through, it provides the same eARC capability at a more competitive price.