4K HDMI/eARC HDBaseT 3.0 Transmitter (100m) with USB 2.0 & Ethernet

Extend 4K60 Video, eARC Audio Return, USB KVM & Gigabit Ethernet over a Single CAT6A Cable — 328ft

MPN: EXT-HDBT3ARC-TX

1 PRODUCT OVERVIEW

DESIGNED FOR

Commercial AV integrators, residential custom installers (CEDIA channel), and systems designers working in corporate boardrooms, education lecture halls, houses of worship, medical imaging rooms, and high-end residential theaters where the source rack is distant from the display and the TV's audio must route back to a local AVR or soundbar.

THE CHALLENGE

Standard HDMI extenders carry video forward but drop the audio return path — forcing integrators to run a second cable or add a standalone ARC extractor. Most HDBaseT 2.0 kits also lack USB extension, which means a third cable for KVM or touch-panel control. The EXT-HDBT3ARC-TX solves both gaps: it extends 4K60 4:4:4 video, eARC/ARC audio return, USB 2.0 KVM, 1GbE Ethernet, bi-directional IR, and RS-232 over a single CAT6A/7 cable up to 100m — and ships as a standalone transmitter for flexible deployment.

THE KANEXPRO ADVANTAGE

Matches the full HDBaseT 3.0 feature set of competing $700–800 kits but sells as a standalone TX at $399.95 MSRP / ~$249 street — well below half the price of competing kits. Physical front-panel switches for audio mode, USB mode, and loop out eliminate software dependency for field configuration. vs. KanexPro EXT-HD4KEARC-70M: adds USB 2.0, 1GbE, audio embedding, and extends 30m farther.

OVERVIEW

Extend 4K60 video, eARC audio return, USB KVM, and Gigabit Ethernet up to 100m over a single CAT6A cable — eliminating multi-cable runs and standalone audio extractors from long-distance AV installations. The KanexPro EXT-HDBT3ARC-TX is an HDBaseT 3.0 transmitter that delivers uncompressed 4K@60Hz 4:4:4 video, eARC/ARC audio return, USB 2.0, 1GbE Ethernet, bi-directional IR, and RS-232 through one CAT6A/7 cable at distances up to 328ft/100m.

Compliant with HDMI 2.0b, HDCP 2.2, and HDBaseT 3.0 with 18Gbps video bandwidth and 16Gbps + 2Gbps return link. Supports HDR10, HDR10+, Dolby Vision, and HLG pass-through alongside lossless audio formats including Dolby TrueHD and DTS-HD Master Audio. Front-panel DIP switches configure audio mode (eARC/ARC/SPDIF), HDMI output (loop-out/audio-only), USB role (host/device), and L/R audio embedding/de-embedding — no software or web GUI required. Bi-directional 24V PoC powers either end from a single adapter.

2 PRODUCT POSITIONING

> ***EXT-HDBT3ARC-TX is the HDBaseT 3.0 transmitter for integrators who need full-distance 4K60 extension with eARC audio return and USB KVM on a single CAT cable — without paying for a full TX/RX kit when the receiver already exists on the job.***

3 APPLICATIONS

Corporate Boardroom
4K60 video + USB touch-panel control to display 60m away; eARC returns audio to local soundbar.

University Lecture Hall
HDMI + USB document camera to 80m projector; IR/RS-232 for centralized control.

House of Worship
Graphics to LED wall 100m away; eARC returns stage audio to booth mixer.

Medical Imaging
4K diagnostic images to reading room 40m away with USB KVM and 1GbE network.

Residential Theater
Lossless 4K from media closet to display 50m away; eARC returns Atmos to AVR.

Digital Signage
4K content to in-store display 80m away; RS-232 + 1GbE for remote management.

4 WHO THIS IS FOR

AV Integrators | CEDIA Installers | Systems Designers | Corporate AV | Education | Healthcare

Ideal User
AV systems designer / lead installer at a mid-tier integration firm (5–30 employees) serving corporate, education, and hospitality verticals.

Project Types
Corporate boardrooms, lecture halls, houses of worship, medical imaging suites, high-end residential theaters, digital signage installations — $10K–$100K AV fit-outs with 5–50 endpoints.

Typical Buyer
AV project lead or procurement manager evaluating on feature parity, cable count reduction, and distributor availability. Must meet spec-sheet parity with Crestron/Extron alternatives at a lower price point.

5 KANEXPRO PRODUCT COMPARISON

The EXT-HDBT3ARC-TX sits at the top of KanexPro's HDMI Pro extender lineup, offering the most complete HDBaseT 3.0 feature set for long-distance installations:

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
EXT-HDBT3ARC-TX	Full-distance 4K60 + eARC + USB KVM	100m, USB 2.0, 1GbE, eARC, RS-232, PoC	Most complete feature set; standalone TX option
EXT-HD4KEARC-70M	Simple eARC extension (short runs)	70m, eARC, IR, PoC	No USB, no 1GbE; 30m shorter range
EXT-HD4KEARC-50M	Budget eARC extension	50m, eARC, IR, PoC	Half the distance; no USB/1GbE/RS-232

Choose the EXT-HDBT3ARC-TX when you need USB KVM, Gigabit Ethernet, or distances beyond 70m with full eARC audio return.

6 FREQUENTLY ASKED QUESTIONS

Q: Why buy the TX only instead of the full kit?
If you already have a compatible HDBaseT 3.0 receiver — or you're building an asymmetric system — the standalone TX saves $400–$600 per endpoint.

Q: Does eARC work with any TV?
eARC requires an eARC-enabled TV. For standard ARC TVs, the extender falls back to ARC mode automatically.

Q: What cable is required for full 100m distance?
CAT6A or CAT7 shielded cable. CAT6 may work at shorter distances but is not recommended for full 100m runs.

Q: Can USB extend keyboard, mouse, AND webcam simultaneously?
Yes — two USB Type A device ports support multiple peripherals. USB 2.0 bandwidth (350 Mbps) handles KVM + webcam together.

Q: How does PoC work?
Bi-directional 24V PoC — power either end with the included adapter and the other unit draws power over the CAT cable.

Q: Is it compatible with third-party receivers?
Uses standard HDBaseT 3.0 protocol. For guaranteed full feature support, pair with the KanexPro EXT-HDBT3ARC-RX.

Q: How does this compare to BZBGEAR and OREI?
KanexPro matches the full spec sheet at a lower price point, with physical front-panel switches that eliminate software dependency for field configuration.