

HDBaseT 3.0 4K HDMI Extender Kit with eARC & USB 2.0 — 328ft

Extend Uncompressed 4K@60Hz 4:4:4, eARC/ARC Audio Return, USB 2.0, IR, RS-232 & Gigabit Ethernet Over a Single CAT6A/7 Cable

MPN: EXT-HDBT3ARC-100M



1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators designing long-distance 4K HDMI extension for corporate, education, hospitality, and residential projects that require eARC audio return and USB 2.0 KVM over structured cabling.

THE CHALLENGE

Modern TVs use eARC for high-quality audio return, but HDBaseT 2.0 extenders don't support eARC — forcing integrators to run separate audio cables or downgrade audio quality. Standard HDMI-over-IP adds compression latency.

THE KANEXPRO ADVANTAGE

Only HDBaseT 3.0 extender in this price range with full eARC/ARC audio return (6 switching scenes), audio embedding/de-embedding, configurable USB 2.0 Host/Device, and bi-directional POC — all over a single CAT cable to 328ft.

2 PRODUCT POSITIONING

The EXT-HDBT3ARC-100M is the HDBaseT 3.0 extender for AV integrators who need full 4K@60 4:4:4 extension with eARC audio return and USB 2.0 KVM over a single CAT cable — without sacrificing audio routing flexibility or adding a second power supply.

3 APPLICATIONS

Home Theater with eARC

Extends 4K HDR video from a media room source rack to a remote display while routing eARC audio back to the transmitter side for connection to an AV receiver or soundbar — eliminating the need for a long HDMI run and maintaining full Atmos/DTS:X audio fidelity.

Corporate Conference Rooms

Delivers uncompressed 4K presentation content from a lectern or rack to a remote display with USB 2.0 KVM for mouse/keyboard control at the display side — enabling one-cable infrastructure for hybrid meeting rooms with room control via RS-232.

Education & Lecture Halls

Routes high-resolution content from an instructor station to projectors or displays up to 328ft away with IR pass-through for remote control and Gigabit Ethernet for network connectivity at both ends — reducing cable infrastructure costs.

Hospitality & Digital Signage

Extends 4K signage content from a centralized media player to lobby or guest-area displays over structured cabling with bi-directional POC — allowing a single power drop to serve both transmitter and receiver in hard-to-reach locations.

Healthcare AV Systems

Provides clean 4K video extension for surgical displays, diagnostic imaging stations, or patient room entertainment systems with audio de-embedding for local monitoring and RS-232 integration for centralized room control.

House of Worship

Extends camera or media server output to remote displays in overflow rooms, lobbies, or cry rooms with eARC audio return to the main sound system — maintaining full audio quality over a single CAT cable run.

4 WHO THIS IS FOR

Corporate AV

education

hospitality

residential custom install

house of worship

healthcare

Ideal User

Senior AV integration technician or systems designer at a mid-size CEDIA/NSCA integration firm

Project Types

Corporate AV, education, hospitality, residential custom install, house of worship, healthcare

Typical Buyer

AV consultant (specifies product in design), project manager (approves vendor), procurement (issues PO)

5 KANEXPRO PRODUCT COMPARISON

KanexPro offers multiple HDBaseT extenders — here's how the EXT-HDBT3ARC-100M fits within the lineup.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
EXT-HDBT3ARC-50M	Extenders : HDMI Pro	Same HDBaseT 3.0 platform	50m range, fewer audio switching scenes, no USB 2.0
EXT-HDBT3ARC-70M	Extenders : HDMI Pro	Same HDBaseT 3.0 platform	70m range, may lack USB 2.0 and full 6-scene audio routing
EXT-HDBT150M8K	Extenders : HDMI Pro	Longer range (150m), 8K capable	Higher price point, may not include eARC at 8K distances

Choose the EXT-HDBT3ARC-100M for the most comprehensive HDBaseT 3.0 solution with full eARC, USB 2.0 KVM, and 328ft range.

6 FREQUENTLY ASKED QUESTIONS

Q: How does this compare to HDBaseT 2.0 extenders?

HDBaseT 3.0 delivers 18Gbps (vs. 10.2Gbps) with native eARC support and USB 2.0 — no compression, no feature trade-offs. It also adds bidirectional POC.

Q: Why not use a cheaper HDMI-over-CAT extender?

Low-cost extenders compress video (H.264/265) introducing latency and artifacts. HDBaseT 3.0 passes uncompressed 4K@60 4:4:4 with zero-frame latency.

Q: What cable do I need?

CAT6A or CAT7 shielded, terminated with standard RJ45. Maximum 100m/328ft. Premium High Speed HDMI cables recommended for source connections.

Q: Can I use one power supply for both units?

Yes — bi-directional 24V POC means one 24V/1A adapter powers both the transmitter and receiver over the CAT cable.

Q: Does the eARC support Dolby Atmos?

eARC mode passes the TV's audio (including Atmos via eARC-compatible TVs) back to the transmitter side. SPDIF output is limited to 5.1CH in eARC mode.

Q: How does this differ from the KanexPro 50m or 70m models?

The 100M model extends to 328ft (vs. 164ft/230ft), adds 6 audio switching scenes, and includes USB 2.0 KVM — making it the full-featured flagship for long-distance installs.