

HDBaseT HDMI Extender over Cat6 — 150M (492 ft.) with PoE

1080p@60Hz | PoE | HDMI Loop-Out | RS-232 | Bi-directional IR | Dolby Atmos | 3-Year Warranty

MPN: EXT-HDBT150M



1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators and systems designers specifying HDBaseT HDMI distribution for large venues, lecture halls, houses of worship, conference rooms, and control rooms where 150M reach and RS-232/IR control are required.

THE CHALLENGE

Standard Cat6 HDMI extenders max at 50–70M. Active fiber systems are expensive and complex. HDBaseT over Cat6 extends 1080p to 150M with RS-232, IR, and PoE on one cable — no fiber, no second power run.

THE KANEXPRO ADVANTAGE

150M HDBaseT reach, bidirectional PoE (one PSU for both units), RS-232 Phoenix pass-through, Dolby Atmos/DTS:X audio, $\pm 8\text{kV}$ ESD protection, metal enclosure, locking power connector — all at \$314.95 MSRP with 3-year warranty.

2 PRODUCT POSITIONING

The EXT-HDBT150M is the HDBaseT HDMI extension solution for integrators who need 492 ft. reach, RS-232 control, and premium audio pass-through in a single-cable, single-power-supply package.

3 APPLICATIONS



Large Lecture Halls & Auditoriums

Run 1080p HDMI from AV racks to stage screens up to 150M (492 ft.) over a single Cat6 — PoE powers the RX from the TX, minimizing power runs.



Conference Rooms & Boardrooms

Extend presenter HDMI from the AV closet to the boardroom display with RS-232 and IR for full source and display control from either end.



Digital Signage & Large Venues

Drive lobby, terminal, and large-format displays from centralized media players up to 150M away — no fiber, no active amplifiers, single Cat6 run.



House of Worship & Live Events

Distribute HD video from media servers to screens across sanctuaries, overflow rooms, and lobby displays over existing Cat6 infrastructure.



Command & Control Rooms

Deliver 1080p feeds from rack-mounted sources to operator displays across the facility — PoE, RS-232, and IR ensure full system control at the display.



Education & Campus AV

Connect classrooms, labs, and lecture theaters to campus AV distribution over Cat6 cabling at distances far exceeding standard HDMI or copper-extender limits.

4 WHO THIS IS FOR

AV Integrators

Corporate AV

Education

House of Worship

Government

Healthcare

Ideal User

AV systems integrator specifying HDBaseT HDMI distribution for commercial, education, government, or venue environments.

Project Types

Corporate AV, Education, House of Worship, Government/Defense, Healthcare, Hospitality.

Typical Buyer

AV Project Engineer or IT Director specifying HDMI Pro infrastructure BOM.

5 KANEXPRO PRODUCT COMPARISON

EXT-HDBT150M in context of KanexPro HDMI extender lineup — choose by protocol and distance.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
EXT-HDBT150M	HDBaseT 1080p Cat6 150M	150M, PoE, RS-232, IR, Dolby Atmos	This SKU — max reach, RS-232, PoE
EXT-4KHD70M	4K@60Hz Cat6 70M	70M, 4K@60Hz HDR, ARC S/PDIF	4K@60Hz at shorter distance
EXT-50M18G	4K@60Hz Cat5e/6 50M	50M, 4K@60Hz, loop-out, RS-232	4K@60Hz, HDMI loop-out, compact
EXT-HD50C	4K@30Hz Cat5e/6 70M	70M 1080p, 40M 4K@30Hz, EDID copy	4K@30Hz or long 1080p — value tier

► EXT-HDBT150M — \$314.95 MSRP — Best for 150M HDBaseT with RS-232 + PoE

Q: How does PoE work — do I need two power supplies?

No — only one locking 24V/1A power supply is included and required. Connect it to either the TX or RX unit. The powered unit supplies power to the other over the Cat6 cable via PoE. This eliminates the need to run a second power cable to the remote end.

Q: Why HDBaseT instead of standard Cat6 extension?

HDBaseT carries HDMI video, audio, RS-232, IR, and PoE power simultaneously over a single Cat6 cable at distances up to 150M — standard Cat6 extenders max out at 50–70M for 1080p. HDBaseT is the industry standard for long-run AV distribution in commercial installations.

Q: Does it support 4K resolution?

The EXT-HDBT150M supports up to 1080p@60Hz (HDMI 1.4). For 4K@60Hz extension over Cat6, use the EXT-4KHD70M (70M) or the EXT-HDMIKVM70M. HDBaseT 2.0 (4K capable) is a different product category.

Q: What RS-232 connector type is used?

The RS-232 port uses a Phoenix (screw-terminal) connector on both TX and RX. This allows direct wiring to control systems, automation processors, and displays without a D-sub adapter. Bidirectional pass-through is supported over the HDBaseT link.

Q: What cable type is required?

Cat6 STP (shielded twisted pair) with proper grounding is required for the full 150M (492 ft.) reach. Use cable that does not share conduit with power cables. Standard Cat5e may work at shorter distances but Cat6 is required for maximum performance.

Q: What audio formats are supported?

Full audio pass-through: Dolby Atmos, DTS:X, Dolby TrueHD, DTS-HD Master Audio, Dolby Digital/Digital+, DTS 5.1, and LPCM 2.0/5.1/7.1. All formats pass through the HDBaseT link uncompressed.

Q: Is the EXT-HDBT150M suitable for in-wall or plenum installation?

The units themselves are surface-mount/rack-adjacent devices. For in-wall cable runs, use CL3 or CMP-rated Cat6 STP as required by local code. The TX and RX units are typically installed in equipment closets or behind displays.