

4K30Hz HDBaseT HDMI Extender over Cat5e/6 with PoC - 70M

Power the Far End Without an Outlet - Single 12V PoC Supply, Bi-directional IR & RS-232, HDCP 2.2, 4K30 to 40m

MPN: EXT-HDBT70C



The EXT-HDBT70C carries one HDMI source to a distant display over a single Cat5e/6 run, and powers the far end across the same cable — no outlet, no second power brick behind the screen. The kit pairs a transmitter and a receiver in a compact black metal enclosure with mounting ears, driving 1080p to 70 meters and 4K2K@30Hz 4:4:4 to 40 meters over HDBaseT at 10.2 Gbps. Power Over Cable feeds both units from one 12V/1A supply connected at either end, which makes this the right choice for classrooms, huddle rooms, digital-signage endpoints and single-zone residential displays where reach, single-cable installation and embedded control matter more than 4K60 or HDR bandwidth the job never uses.

Bi-directional IR and bi-directional RS-232 pass-through travel inside the same cable as the video, so the far-end display can be switched, powered and volume-adjusted and the head-end source controlled from the remote room, all without pulling a separate control run. The link is HDCP 2.2 compliant for protected 4K sources and built to HDMI 1.4, with ESD-protected ports and status indicators for HDCP state and transmitter-to-receiver link quality. The single strongest advantage is spec-right economy: full HDBaseT transport with PoC, IR and RS-232 control delivered at a 4K30 design ceiling, so integrators standardizing many small rooms are not forced to overbuy an 18 Gbps link.

1 PRODUCT OVERVIEW

DESIGNED FOR

Built for the single source-to-display link that runs past HDMI's copper limit: the classroom or lecture hall feeding a projector from the lectern, the huddle and small conference room driving one wall panel from a credenza, the retail, QSR or transit signage endpoint pulling one home run to a 4K30 menu board, the house of worship sending a stage source to lobby and overflow screens, and the control room or single-zone residential display where a serial-controlled panel sits at the far end of a structured-cabling run.

THE CHALLENGE

HDMI over passive copper falls apart past roughly 15 feet, and 4K makes it worse — but distance is only half the job. The display at the far end still has to be powered, switched and controlled, and it often lands where there is no free outlet and no easy path for a second control cable. Pulling extra runs for power and control defeats the single-cable install and adds labor to every room, so a rollout of dozens of identical small rooms turns into dozens of avoidable complications.

THE KANEXPRO ADVANTAGE

- Carries HDMI, bi-directional IR and bi-directional RS-232 inside one Cat5e/6 cable, so display and source control travel with the video and no separate control run is needed.
- Power Over Cable feeds both units from a single 12V/1A supply at either end, removing the outlet problem behind a wall-mounted display.
- Reaches 1080p to 70 m and 4K2K@30Hz 4:4:4 to 40 m over HDBaseT at 10.2 Gbps, HDCP 2.2 compliant for protected sources.
- Priced to a 4K30 design ceiling rather than an 18 Gbps 4K60/HDR tier that costs several times more and delivers bandwidth these jobs do not use.
- Backed by KanexPro's dealer channel, warranty and support — an RMA answered by a person, not a marketplace return window — where budget e-tail kits are not.

2 PRODUCT POSITIONING

The EXT-HDBT70C is the 4K30 HDBaseT extender kit for AV integrators who need a single-cable source-to-display link with embedded IR and RS-232 control, without paying for 18 Gbps 4K60/HDR bandwidth the job never uses.

3 APPLICATIONS



Digital-signage endpoint (retail / QSR / transport)

A media player in a back-of-house rack drives a 4K30 menu-board or wayfinding display 100–200 ft away. One Cat6 carries the video; RS-232 pass-through wakes and sources the display on a schedule; PoC powers the receiver behind the panel where no outlet exists. The metal housing and mounting ears let it sit unseen behind the screen.



Classroom / lecture hall source-to-display

The instructor's PC or document camera at the lectern feeds a projector or flat panel across the room at 4K30 4:4:4. Bi-directional IR lets the wall-plate or room controller pass commands to the far-end display, and RS-232 handles projector on/off and input select over the same run.



Corporate huddle and small conference rooms

A rack or credenza source connects to a single wall display. At 4K30 the link budget is met without paying for 18 Gbps; the integrator standardizes one SKU across dozens of identical rooms in a building refresh, terminating one home run per room.



House of worship auxiliary displays

A stage-side source drives lobby or overflow-room screens over structured cabling. PoC removes the need for AC at each remote display, and IR pass-through gives volunteers simple remote control of the far display.



Control room / operations center secondary feeds

Where RS-232 display control is a requirement, the phoenix-terminated serial pass-through carries commands to a monitor 40–70 m from the source rack, keeping a single-cable, control-integrated run in an environment that audits its wiring.



Single-zone residential distribution

An installer sends a media source from an equipment closet to a living-area or media-room display at 4K30 over in-wall Cat6, hiding a compact metal transmitter/receiver pair and powering the display end over the cable — no visible second power brick, IR relayed back to the rack. ---

4 WHO THIS IS FOR

Education

Corporate huddle/conference rooms

Digital signage (retail, QSR

Transport)

Hospitality

Houses of worship

Government/control rooms

Single-zone residential

Ideal User

the commercial AV integrator or residential installer specifying and terminating one-to-one extension links. Comfortable with HDBaseT, EDID, HDCP, IR/RS-232 control. Buys the kit that solves the job at the right spec without overbuying, and will standardize on a SKU that is reliably in stock and channel-supported.

Project Types

education (classroom/lecture-capture endpoints), corporate huddle/conference rooms, digital signage (retail, QSR, transport), hospitality, houses of worship, government/control rooms (RS-232 matters here), single-zone residential.

Typical Buyer

on commercial jobs, the **integrator's lead engineer or purchasing manager** specs the extender line; the end client rarely names it. On residential, the **installer/owner** decides outright. Price sensitivity is real at this tier — this is a commodity-adjacent line item, not a hero product.

5 FREQUENTLY ASKED QUESTIONS

Q: How is this different from the cheaper HDBaseT kits I can buy on Amazon?

Spec-for-spec it sits in the same 4K30, 70 m, PoC, IR/RS-232 band as those kits. The difference is behind the box: KanexPro dealer channel, warranty, and support you can reach when a unit needs an RMA on a live job — not a marketplace return window.

Q: Will it do 4K60 or HDR?

No. It is built to HDMI 1.4 / 10.2 Gbps, so the ceiling is 4K2K@30Hz 4:4:4 (and 1080p up to 60/120 Hz). For 4K60 or HDR, step up to the KanexPro 4K60 extender line. This unit is priced deliberately for jobs that top out at 4K30.

Q: How far will it actually run?

Over a single Cat5e/6: up to 70 m at 1080p, and up to 40 m at 4K2K@30Hz. Plan the 4K runs to 40 m; if the display sits farther out at 4K, move up to the 4K60/70 m SKU.

Q: Do I need power at both ends?

No. PoC lets one 12V/1A supply power both units over the Cat cable — connect the adapter at the transmitter or the receiver and the other end is powered across the link. That removes the outlet problem behind a wall-mounted display.

Q: Can I control the far-end display and the source through it?

Yes. It carries bi-directional IR and bi-directional RS-232 (phoenix). You can relay IR either direction and pass serial commands to control the remote display or the head-end source over the same cable as the video.

Q: Is it HDCP compliant for protected sources?

Yes — HDCP 2.2 compliant, so protected 4K sources pass end to end.

Q: What's in the box, and will it mount cleanly in a rack or behind a panel?

The kit ships as a matched transmitter and receiver in a black metal enclosure with mounting ears, plus the power adapter, IR receiver and blaster cables, and phoenix connectors. The compact housing is meant to sit behind a display or in a rack tray out of sight.

sales@kanexpro.com | www.kanexpro.com