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

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, the transmitter supports HDR10, HDR10+, Dolby Vision, and HLG pass-through alongside Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, and DSD audio formats. Front-panel switches configure audio mode (eARC/ARC vs. SPDIF), HDMI output (loop out vs. audio only), USB role (host vs. device), and L/R audio embedding/de-embedding — no software required. Bi-directional 24V PoC eliminates the need for a second power adapter.

4K60 4:4:4 HDR 18 Gbps	**100m** HDBaseT 3.0 Single CAT	**eARC** Audio Return Dolby/DTS	**USB 2.0** KVM Host/Device	**1GbE** Ethernet Pass-through

KEY FEATURES

- Extends uncompressed 4K@60Hz 4:4:4 video up to 100m/328ft via a single CAT6A/7 cable with 18Gbps bandwidth
- HDMI 2.0b and HDCP 2.2 compliant with HDR10, HDR10+, Dolby Vision, and HLG pass-through
- eARC/ARC audio return from the receiver's display back to the transmitter's HDMI input, HDMI audio-only output, and SPDIF output
- Audio pass-through: LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, DTS, DTS-EX, DTS-96/24, DTS-HD Master Audio, DSD
- USB 2.0 extension with configurable Host/Device mode — supports KVM peripherals, webcams, and touch panels
- 1GbE Ethernet and bi-directional IR pass-through — maintains network connectivity and remote control over the same cable
- RS-232 serial pass-through up to 921,600 bps for integration with control systems (Crestron, Extron, AMX)
- Front-panel switches for audio mode (ARC/SPDIF), HDMI output (Loop Out/Audio Only), USB role (Host/Device), and L/R audio embedding/de-embedding
- Bi-directional 24V PoC — power either the transmitter or receiver from a single adapter

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b • HDCP 2.2
Video Resolution	Up to 4K @ 60 Hz 4:4:4
HDBaseT Bandwidth	16 Gbps main + 2 Gbps return
HDR Formats	HDR10 • HDR10+ • Dolby Vision • HLG
Audio (Pass-through)	LPCM, DD/DD+/EX, TrueHD, DTS/DTS-HD MA, DSD
eARC / SPDIF	eARC/ARC return • SPDIF optical out • L/R 3.5mm
USB / Ethernet	USB 2.0 (350 Mbps) • 1GbE • RS-232 (921,600 bps)
Control	Bi-directional IR • RS-232 • Front-panel switches
Transmission	100m / 328ft via single CAT6A/7
Power	DC 24V/1A • Bi-directional PoC
ESD Protection	±8 kV air-gap • ±4 kV contact

PACKAGE CONTENTS

1× HDBaseT Transmitter • 1× IR Blaster Cable • 1× IR Receiver Cable • 2× Phoenix Connectors • 4× Mounting Ears • 8× Machine Screws • 1× 24V/1A Power Supply • 1× User Manual

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sales@kanexpro.com | www.kanexpro.com