

Long-Range ARC Audio Extender over CAT (150m/492ft)

Dual-Input TX/RX Kit — HDMI ARC or Optical S/PDIF to Amplifier over CAT5e/6/7

MPN: AUD-EXT-ARC150M



1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators routing ARC or optical audio from distant displays to amplifier racks in commercial installs; residential and hospitality integrators extending TV audio over existing CAT infrastructure without new audio cable runs.

THE CHALLENGE

HDMI ARC is limited to the native HDMI cable length — typically 5–10m. When a display is mounted far from the AV rack, integrators must run dedicated audio cable, use analog converters, or install signal repeaters. A single CAT cable solution supporting both ARC and optical S/PDIF at 150m has not existed at this price point.

THE KANEXPRO ADVANTAGE

Selectable ARC or S/PDIF input at TX, 150m at 96kHz / 90m at 192kHz over single CAT5e/6/7, CEC pass-through, PCM 2.0/Dolby 5.1/DTS 5.1, metal enclosures with ESD protection, plug-and-play. \$199.95.

2 PRODUCT POSITIONING

AUD-EXT-ARC150M is the install-grade ARC/optical extender for integrators who need TV audio at the amplifier rack up to 150m away — one CAT cable, no repeaters, no analog stage.

3 APPLICATIONS



Large-Screen Display Rooms

Route ARC audio from ceiling-mounted display back to AV rack amplifier up to 150m — one CAT cable replaces dedicated audio cabling and analog converters.



Bar / Lounge Sound Systems

Extend TV ARC audio to remote amp/speaker system behind the bar or in back-of-house equipment rack without running new audio cable through finished walls.



House of Worship

Carry ARC or optical audio from sanctuary display to amplifier in a distant tech booth — supports Dolby 5.1 and DTS for cinematic worship experiences.



Hotel / Hospitality

Distribute ARC audio from in-room display to centralized head-end amplifier over existing CAT infrastructure without per-room audio cable runs.



Digital Signage / Retail

Extend optical S/PDIF from media player to remote amplifier or ceiling speaker driver in retail or signage installations over the same CAT run as video.



Education / Auditoriums

Carry ARC audio from large-format display to installed sound amplifier in projection booth or AV rack up to 150m — no audio-specific cabling required.

4 WHO THIS IS FOR

AV Integrators

Installed Sound

Hospitality

Corporate AV

House of Worship

Education

Ideal User

AV integrators routing ARC or optical audio from distant displays to amplifier racks in commercial installs; residential and hospitality integrators extending TV audio over existing CAT infrastructure without new audio cable runs.

Project Types

Residential custom install, hospitality and hotel rooms, corporate AV, houses of worship, education, digital signage, multi-dwelling units.

Typical Buyer

AV integrator (custom install or commercial); AV director or facilities manager at end-user institution.

5 KANEXPRO PRODUCT COMPARISON

The AUD-EXT-ARC150M fits specific ARC/audio extension requirements. Compare with related options:

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS	
HDBaseT ARC extractors	Various OEM	ARC over HDBaseT	Requires full HDBaseT TX/RX pair (\$300+), overkill for audio-only runs	\$300+
Optical extenders (analog)	Various	Optical over CAT (analog)	Analog conversion stage, limited distance, no ARC support	\$80–\$150
AUD-EXT-EARC100M	KanexPro	eARC/S/PDIF over CAT (100m)	Use when eARC with Dolby Atmos/TrueHD required; shorter distance	\$249.95

► Use AUD-EXT-ARC150M for ARC/optical extension up to 150m. Upgrade to AUD-EXT-EARC100M when eARC with Dolby Atmos or TrueHD is required.

What is the maximum cable run?

150m / 492ft at 96kHz using CAT5e, CAT6, or CAT7. For 192kHz sample rates, maximum distance is 90m / 295ft.

Can this be used with TVs that don't have ARC?

Yes — the transmitter has a front-panel toggle to select between HDMI ARC input and optical S/PDIF input. Use the S/PDIF input for TVs or sources without an ARC port.

Does TV remote volume control still work?

Yes — CEC pass-through is included when in ARC mode, preserving volume control from the TV remote to the connected amplifier without additional control infrastructure.

What audio formats are supported?

PCM 2.0ch, Dolby Digital 5.1ch, and DTS 5.1ch. For Dolby Atmos, TrueHD, or DTS-HD MA, use AUD-EXT-EARC100M with eARC.

Is this truly plug-and-play?

Yes — no configuration software or drivers required. Connect TX to display, RX to amplifier, run CAT cable between them, select ARC or S/PDIF at TX switch, and power both units.

What power is required?

Both TX and RX include Micro-USB power ports. Each unit requires a 5V power source. No PoE or PoC — both units must be independently powered (use the AUD-EXT-EARC100M for PoC-powered installations).

Can existing CAT cable in a building be used?

Yes — straight-through CAT5e, CAT6, or CAT7 (T568B wiring). Avoid crossover cables. Pre-installed structured wiring is fully compatible.