8K HDMI eARC Audio Adapter

De-embed & Distribute Audio from Any HDMI 2.1 or eARC/ARC Source

> **Surge Protection Recommended.** This product contains sensitive electrical components that may be damaged by electrical spikes, surges, or lightning strikes. Use of surge protection systems is highly recommended to protect and extend the life of your equipment.

Route audio simultaneously to a soundbar, amplifier, optical, and analog output from a single eARC TV port — one device replaces two. The KanexPro AUD-EARC-8K is a 48Gbps HDMI 2.1 eARC Audio Adapter with a dedicated Soundbar eARC HDMI output, Amp AUDIO HDMI output, S/PDIF optical, and analog L/R — all delivered simultaneously from one commercial-grade unit.

Fully compliant with HDMI 2.1 and HDCP 2.3, it passes video at up to 8K@60Hz and 4K@120Hz with HDR10, Dolby Vision, and HLG intact. Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X are supported on all HDMI outputs. An 8-mode DIP switch provides tool-free EDID management; CEC enables TV remotes to control sources and volume across any connected eARC sound system.

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1. Introduction

This 48Gbps eARC Audio Adapter is designed for de-embedding audio signals from an HDMI source or TV with ARC/eARC, and outputting HDMI audio, digital S/PDIF audio, or analog audio to an AV receiver. It supports data rates up to 48Gbps complying with HDMI 2.1 and HDCP 2.3 requirements. Features include EDID management, cable equalization, and CEC control from TV to source, amplifier, or soundbar.

2. Features

- HDCP 2.3 compliant
- Supports 48Gbps video bandwidth and video resolution up to 8K@60Hz 4:2:0 12bit and 4K@120Hz 4:4:4 12bit, as specified in HDMI 2.1
- VRR, ALLM, QMS, QFT, SBTM supported, as specified in HDMI 2.1
- HDR, HDR10, HDR10+, Dolby Vision pass-through
- LPCM 7.1CH, Dolby TrueHD, Atmos, DTS-HD Master Audio, DTS:X audio pass-through
- HDMI source and TV eARC/ARC audio de-embedded to S/PDIF, L/R, and HDMI audio output
- HDMI source de-embedded to any eARC/ARC soundbar output
- Full audio up to Dolby Atmos/DTS:X from eARC TV to SONOS ARC & Beam or any eARC soundbar
- CEC control from TV to the source; CEC volume control from TV to any eARC sound system
- Advanced EDID management (8-mode DIP switch)
- USB-C service port for firmware updates and serial control

3. Package Contents

1× 48Gbps eARC Audio Adapter   1× 5V/2A Multinational Power Supply   1× User Manual
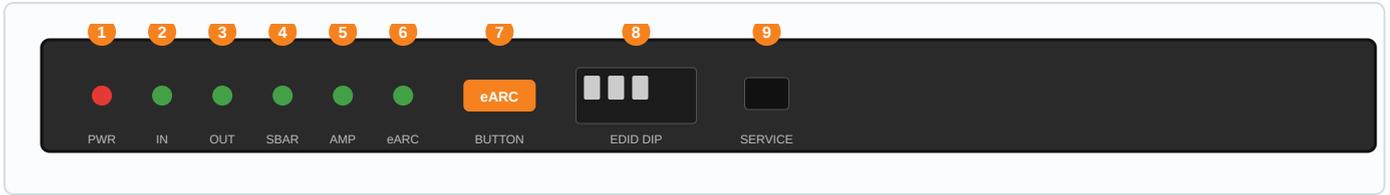
4. Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
Color Depth	8/10/12bit
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio (HDMI / eARC)	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X
Audio (Optical)	PCM 2.0CH / Dolby / DTS 5.1CH
Audio (L/R)	PCM 2.0CH
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection	
Input	1 × Source IN [HDMI Type A, 19-pin female]
Output	1 × TV(eARC) OUT [HDMI Type A] • 1 × Soundbar eARC OUT [HDMI Type A] • 1 × Amp AUDIO OUT [HDMI Type A] • 1 × OPTICAL [S/PDIF] • 1 × L/R [3.5mm Stereo]
Control	1 × SERVICE [USB Type-C, Update port]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	145mm [W] × 68mm [D] × 18mm [H]
Weight	262g

Power	
Power Supply	Input: AC 100–240V 50/60Hz → Output: DC 5V/2A (CE/FCC/UL certified)
Power Consumption	5.2W (Max)

Environment	
Operating Temperature	0°C – 40°C / 32°F – 104°F
Storage Temperature	−20°C – 60°C / −4°F – 140°F
Relative Humidity	20–90% RH (non-condensing)

Recommended HDMI Cable Length	
8K (Ultra HDMI 2.1)	3m / 10ft
4K@60Hz	8m / 26ft
4K@24Hz	12m / 39ft
1080p	15m / 49ft

The use of "Premium High Speed HDMI" cable is highly recommended.

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5. Operation Controls and Functions

FRONT PANEL

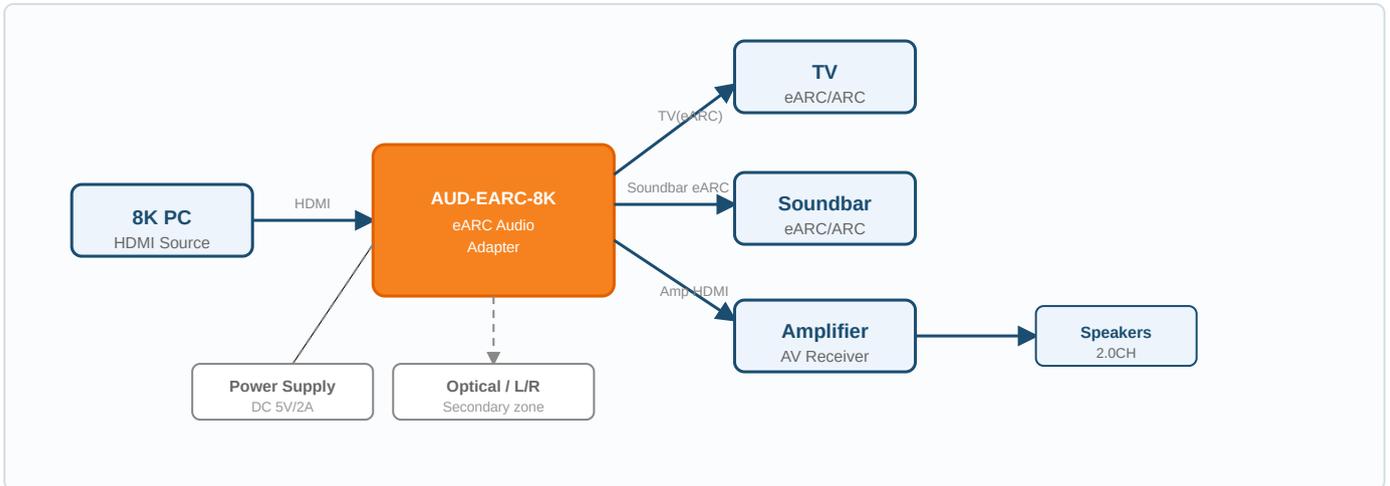| NO.	NAME	FUNCTION DESCRIPTION
1	**Power LED**	Red LED is on when the device is powered and working.
2	**IN LED**	Green LED illuminates when an input source signal is detected on the Source IN port.
3	**OUT LED**	Green LED illuminates when the TV (eARC) OUT port is connected to a display and outputting signal.
4	**Soundbar LED**	Green LED illuminates when a soundbar is connected properly to the Soundbar eARC OUT port.
5	**Amp LED**	Green LED illuminates when an amplifier is connected properly to the Amp AUDIO OUT port.
6	**eARC LED**	**On:** eARC/ARC mode enabled, CEC and eARC working. **Flashing:** eARC/ARC enabled but CEC communication not working properly. **Off:** eARC mode disabled.
7	**eARC Button**	Press to enable or disable eARC/ARC mode.
8	**EDID DIP Switch**	3-position DIP switch for EDID mode selection (see EDID table on page 4).
9	**SERVICE**	USB Type-C port for firmware updates and serial command control.

REAR PANEL

NO.	NAME	FUNCTION DESCRIPTION
10	Source IN	HDMI input port. Connect to an HDMI source device such as an 8K PC, Blu-ray player, or gaming console.
11	TV (eARC) OUT	HDMI output port. Connect to TV with eARC/ARC. Functions as the eARC/ARC audio return channel when eARC mode is enabled.
12	Soundbar eARC OUT	HDMI audio output port. Connect to an eARC/ARC soundbar (e.g. SONOS ARC, Beam).
13	Amp AUDIO OUT	HDMI audio output port. Connect to an amplifier or AV receiver.
14	OPTICAL	S/PDIF optical fiber audio output port. Supports PCM 2.0CH, Dolby 5.1CH, and DTS 5.1CH.
15	L/R	3.5mm stereo analog audio output port. Supports PCM 2.0CH.
16	DC 5V	DC 5V/2A power input port. Connect included multinational power supply.

EDID DIP SWITCH SETTINGS

DIP Setting	EDID Mode
111	Copy OUT port sink EDID (factory default)
110	Copy video EDID of sink and audio EDID of Soundbar
101	FRL12G 8K HDR — 2.0CH audio
100	FRL12G 8K HDR — 5.1CH audio
011	FRL12G 8K HDR — 7.1CH audio
010	FRL10G 8K HDR — 2.0CH audio
001	FRL10G 8K HDR — 5.1CH audio
000	FRL10G 8K HDR — 7.1CH audio

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6. Application Example

eARC Mode ON: Audio to Soundbar and Amplifier is the audio returned from the TV (e.g. streaming apps, broadcast).   **eARC Mode OFF:** Audio to Soundbar and Amplifier comes from the HDMI input source directly.

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