



AUD-SBAR-8K

8K HDMI 2.1 eARC Audio to Soundbar Adapter

De-embed ARC/eARC Audio to Any Soundbar — HDMI 2.1 Video Passes Through at Full 48Gbps

QUICK SPECS

HDMI Compliance

HDMI 2.1 / HDCP 2.3

Video Bandwidth

48Gbps FRL / 18Gbps TMDS

Power

DC 5V/1A (CE/FCC/UL PSU included)

Video Resolution

8K@60Hz / 4K@120Hz

Audio

Dolby Atmos, DTS:X — SONOS ARC compatible

Dimensions

95 × 68 × 18mm / 178g

- CE
- FCC
- UL
- HDMI 2.1
- HDCP 2.3
- SONOS Compatible



1. Introduction

Bridges the gap between HDMI 2.1 eARC displays and soundbars lacking native eARC support by de-embedding ARC/eARC audio from any 8K-capable TV or HDMI source and routing it via HDMI directly to the soundbar — including SONOS ARC, SONOS Beam, and any eARC-compatible soundbar. Fully compliant with HDMI 2.1 and HDCP 2.3, supporting data rates up to 48Gbps FRL with zero video and audio latency.

Designed for CEDIA integrators specifying residential, hospitality, and corporate AV installations, the AUD-SBAR-8K handles video resolutions up to 8K@60Hz and 4K@120Hz with full HDR pass-through (HDR10, HDR10+, Dolby Vision, HLG) and HDMI 2.1 protocols including VRR, ALLM, QMS, QFT, and SBTM. Eight DIP-switch EDID modes and a USB-C firmware update port ensure long-term field serviceability.

2. Features

- ✓ HDMI 2.1 and HDCP 2.3 compliant with 48Gbps FRL and 18Gbps TMDS video bandwidth
- ✓ Supports video resolutions up to 8K@60Hz (4:2:0, 12-bit) and 4K@120Hz (4:4:4, 12-bit)
- ✓ De-embeds HDMI input audio or TV eARC audio to any eARC soundbar via Soundbar eARC OUT
- ✓ Full audio up to Dolby Atmos/DTS:X from eARC TV to SONOS ARC & Beam or any eARC soundbar
- ✓ HDR pass-through: HDR10, HDR10+, Dolby Vision, HLG; HDMI 2.1 protocols VRR, ALLM, QMS, QFT, SBTM
- ✓ Advanced EDID management via 8-mode DIP switch — copy sink EDID or select fixed FRL12G/FRL10G profiles
- ✓ CEC control and CEC volume control from TV to source and soundbar
- ✓ USB-C SERVICE port for field firmware updates and debug
- ✓ CE/FCC/UL certified 5V/1A multinational power supply included

3. Package Contents

- ① 1 × AUD-SBAR-8K 48Gbps HDMI eARC Audio to Soundbar Adapter
 - ② 1 × 5V/1A Multinational Power Supply (CE/FCC/UL certified)
 - ③ 1 × User Manual

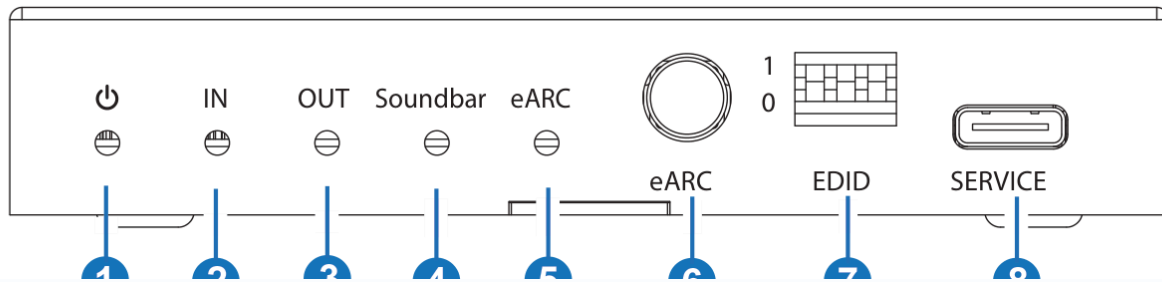
4. Specifications

SPECIFICATION		VALUE
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, 12-bit) / 4K@120Hz (4:4:4, 12-bit)
	Audio Latency	No Latency
	Video Latency	No Latency
	Color Depth	8/10/12-bit
	Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
	HDR	HDR10, HDR10+, Dolby Vision, HLG
	HDMI 2.1 Protocols	VRR, ALLM, QMS, QFT, SBTM
	Audio Formats (HDMI IN/OUT)	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 Formats (eARC OUT)	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
	ESD Protection	IEC 61000-4-2: ±8kV (Air-gap) / ±4kV (Contact)
CONNECTION		
	Input	1 × Source IN [HDMI Type A, 19-pin female]
	Output	1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × Soundbar eARC OUT [HDMI Type A, 19-pin female]
	Control / Service	1 × SERVICE [USB Type C — firmware update & debug]
MECHANICAL		
	Housing	Metal Enclosure
	Color	Black
	Dimensions	95mm (W) × 68mm (D) × 18mm (H)
	Weight	178g
	Power Supply	Input: AC 100–240V 50/60Hz Output: DC 5V/1A (CE/FCC/UL certified)
	Power Consumption	4.13W (Max)
	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 (HDMI IN / OUT)		
	8K@60	2m/6.6ft – 3m/10ft (Ultra HDMI 2.1)
	4K@60	5m/16ft
	4K@30	10m/33ft
	1080p	15m/49ft
CERTIFICATIONS		
	Power Supply	CE / FCC / UL



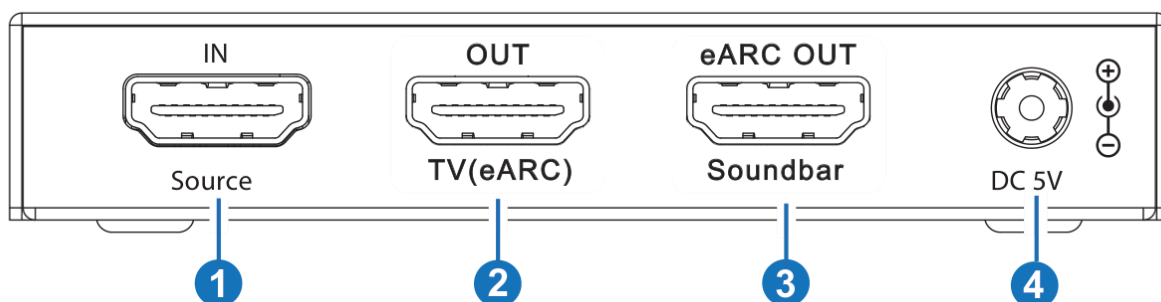
5. Operation Controls and Functions

FRONT PANEL



NO.	NAME	FUNCTION DESCRIPTION
1	Power LED	When the device is powered on, the red LED will be on.
2	IN LED	When the input signal is detected, the green LED will be on.
3	OUT LED	When the OUT port connects to a TV, the green LED will be on.
4	Soundbar LED	When the eARC OUT port connects to a soundbar, the green LED will be on.
5	eARC LED	On: ARC/eARC on; CEC and ARC/eARC working properly. Flashing: ARC/eARC on; CEC/ARC not working properly. Off: ARC/eARC disabled.
6	eARC Button	Press to enable or disable the eARC function.
7	EDID DIP Switch	[111] Copy OUT sink video & audio EDID [110] Copy OUT sink video EDID, Audio 7.1CH [101] FRL12G 8K HDR 2.0CH [100] FRL12G 8K HDR 5.1CH [011] FRL12G 8K HDR 7.1CH [010] FRL10G 8K HDR 2.0CH [001] FRL10G 8K HDR 5.1CH [000] FRL10G 8K HDR 7.1CH
8	SERVICE	USB Type-C port for firmware update and debug.

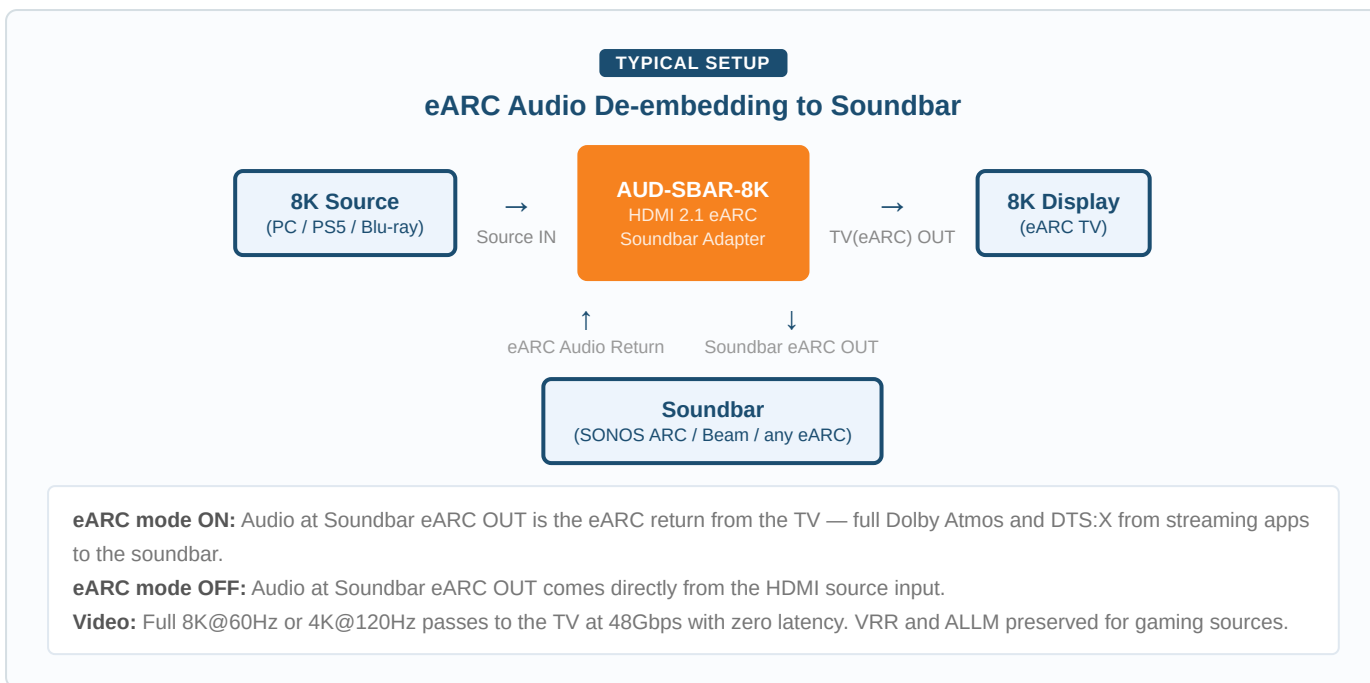
REAR PANEL



NO.	NAME	FUNCTION DESCRIPTION
1	Source IN	HDMI input. Connect to an HDMI source device such as a Blu-ray player, PS5, or 8K computer host.
2	TV(eARC) OUT	HDMI output to TV (ARC/eARC). Used as ARC/eARC audio return channel when ARC function is enabled.
3	Soundbar eARC OUT	HDMI audio output. Connect to a soundbar (SONOS ARC, SONOS Beam, or any eARC-compatible soundbar) with an HDMI cable.
4	DC 5V	DC 5V/1A power input port.



6. Application Example



Troubleshooting

Q: No audio from the soundbar?

A: Verify the eARC button mode. If using eARC return, ensure ARC/eARC is enabled in the TV's audio settings and the soundbar is connected to Soundbar eARC OUT. Check that Premium High Speed HDMI cables are used on all connections.

Q: eARC LED is flashing?

A: Flashing indicates ARC/eARC is enabled but CEC handshake is not established. Verify all cables are 48Gbps rated. Ensure CEC is enabled on TV, source device, and soundbar. Try toggling the eARC button to reset.

Q: SONOS ARC not receiving Dolby Atmos?

A: Confirm the TV's eARC output is set to pass-through (not PCM). Set the EDID DIP switch to [111] to copy the TV sink EDID so the source device receives the soundbar's full audio capability advertised through the chain.

Q: No video on the display?

A: Use Ultra HDMI 2.1 cables (2–3m max) for 8K@60Hz. Try DIP [111] to auto-copy the TV's EDID. For 4K@60Hz, standard Premium HDMI up to 5m is sufficient.

