WWW.AVPROEDGE.COM
INFO@AVPROEDGE.COM
877-886-5112 OR +1 605 274 6055

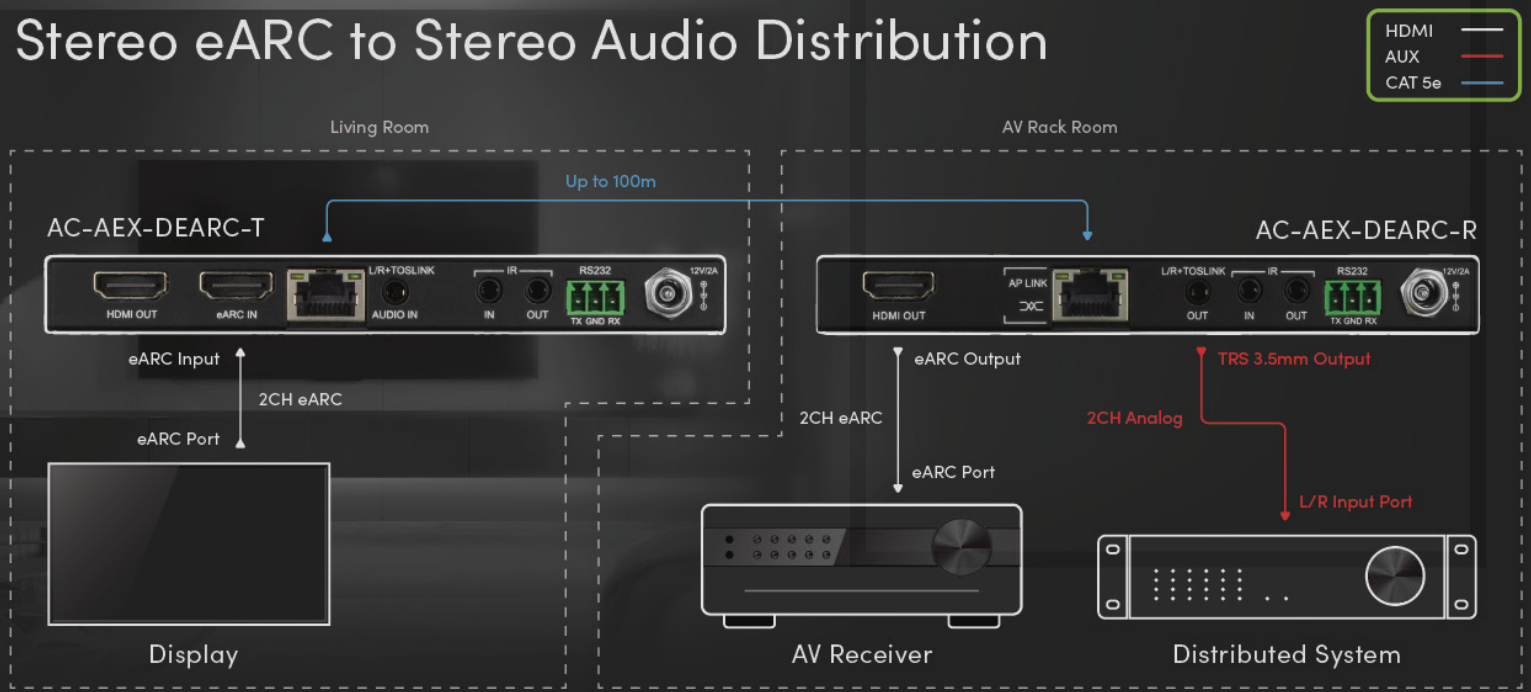


eARC Extender Kit

AC-AEX-DEARC-KIT

The AC-AEX-DEARC-KIT is a transmitter-receiver duo, designed for audio codec transfer (audio signal only, video data is not processed) from a television to a centralized system distribution location, using the eARC feature in the HDMI 2.1 specification. With nearly 30 times the audio bandwidth capacity of optical connections, eARC delivers onboard TV App high-bitrate lossless codecs, or ATSC 3.0 NextGen TV Dolby AC-4 tuner audio, to an AVR or Preamp-processor. The kit also may be used to transmit TOSLINK or L/R analog audio through multi-use ports.

Stereo eARC to Stereo Audio Distribution



PRODUCT SPECIFICATIONS

Video	
Video Transport Not Supported	
Audio	
Audio Formats Supported (HDMI eARC)	PCM 2.0 Ch, LPCM 5.1 & 7.1, Dolby Digital, Dolby Digital Plus, Dolby True-HD, Dolby Atmos, DTS Digital, DTS Hi-Res, DTS-HD Master Audio, DTS:X
Audio Formats Supported (SPDIF/ ARC)	PCM 2.0 Ch, Dolby Digital, DTS 5.1
Audio Formats Supported (Analog)	PCM 2.0 (3.4Vpp)
Distance	
Category Cabling	100 meters (328ft) Category 6A
Ports	
HDMI (Audio-only Output)	Type A
SPDIF	Mini-TOS
Analog	Stereo 3.5 mm
AP-Link	RJ45 with PoC (connect the power supply to the preferred device to power both devices simultaneously)
IR Send (Tx and Rx)	3.5mm mono jack
IR Receive (Tx and Rx)	3.5mm stereo jack
RS-232 (Tx and Rx)	3-Pin Terminal Block Connector
Power (Tx and Rx)	2-Pin Terminal Block Connector
Environmental	
Operating Temperature	23°F (-5°C) to 125°F (51°C)
Storage Temperature	-4°F (-20°C) to 140°F (60°C)
Humidity Range	5% to 90% RH (no condensation)
Power	
Power Consumption (total)	24 Watts maximum
Power Supply – Matrix	Input: AC 100-240V ~ 50/60Hz Output: DC 12V, 2.0A
Dimensions	
Height x Width x Depth (Single Unit)	Millimeters: 15 x 140 x 80 Inches: 0.6 x 5.5 x 3.1
Height x Width x Depth (Packaged Kit)	Millimeters: 86.4 x 196.8 x 140 Inches: 3.4 x 7.75 x 5.5
Weight (Single Unit)	0.5 lbs (0.23 kg)
Weight (Packaged Kit – Shippable Weight)	2 lbs
*Specifications are subject to change without notice. Mass and dimensions are approximate.	





The high protocol overhead for eARC, nearly 37 megabits per second, provides a bandwidth rate equal to eight channels of 192 kHz, 24-bit uncompressed PCM audio. 3D immersive audio codecs such as Dolby Atmos and DTS:X are precisely transported by the AC-AEX-DEARC-KIT using Category cable (Cat 6A recommended) for distances as great as 100m/328ft.

Using the HDMI 2.1 eARC return channel feature, AVPro Edge's proprietary High Bitrate-Link I2C analysis provides timing stability during data transfer for as many as 32 uncompressed audio channels, perfect for the most demanding object-oriented, immersive 3D-audio playback systems that Home Theater enthusiasts might configure. HB-LINK maintains bit-for-bit, accurately regulated data clocking during long-distance digital audio codec transmission for uncompromised decoding accuracy and complete fidelity to original signal content.

KEY BENEFITS

- **HB-LINK** – Synchronizes precision audio data transmission timing, including high bitrate codecs, for performance equivalent to adjacently placed equipment.
- **SELECTABLE INPUTS** – Located at the television, the transmitter's selectable inputs may be switched between HDMI ARC or eARC, with an HDMI output available for a soundbar or local gear use. TOSLINK or L/R analog output may be taken from the display and transferred to a remote distribution system location.
- **L/R & TOSLINK** – When switch-selected, dual-purpose analog stereo in/out and mini-TOSLINK connectors provide local use options with sound bars and wireless headphone base units, or at the system endpoint for two-channel audio distribution (audio output type may be required to be selected in the television menu)
- **BI-DIRECTIONAL IR & RS-232** – Local room control options for remote system components
- **PoC CAPABLE** – Discrete Power-over-cable, or via supplied 12VDC adapter
- **ARC & eARC** – While engineering for the kit is focused on eARC enhancements, ARC is also available for suitably equipped legacy AVRs and Pre-processors.