



Audio Return Channel (ARC)

ARC Explained



- Enables a display to send audio “upstream” or back to an audio source
- Smart TVs with apps such as Netflix, YouTube, Hulu, etc.
 - Displays become the source if apps are being used to watch TV
 - Without ARC, sound cannot get to the A/V receiver or amp
 - Results in utilizing the display’s speakers, which are typically small speakers



EVOLUTION



ARC using HDMI Extenders

Extending HDMI with ARC



- Not all HDMI extenders can handle ARC
- The HDMI extender being utilize must be able to handle ARC
 - Without ARC capability, another wire must be run such as an optical cable or optical extender
 - HDMI extenders with ARC capability allow for one run of Cat5e/6 for video to the display, and sound back upstream

HDMI

**Audio
Return
Channel**

ARC Tips and Tricks



- Ensure all components including cabling supports ARC
- Typically displays only have one or two HDMI ports labeled “ARC”
- Ensure ARC is enabled within the display and A/V Receiver or amp
- ARC uses the same channel as CEC within the HDMI cable
 - Ensure CEC is de-activated



HDMI Extender over Single Cat5e/6 w/ ARC

- 164ft/70m range
- Supports ARC through Cat5e/6 run
- Optical breakout on Transmitter
- Dip switch to extract audio from display or source
- Part # EVEX2007



HDBaseT Extender w/ ARC

- 4K up to 330ft/100m
- 1080p up to 492ft/150m
- PoC
- ARC capable
- Optical Audio embedder and de-embedder
- Part # EVEXHDARC

