AVPro Edge AC-AEX-DEARC-KIT

AVPro Edge has engineered a critical tool for A/V installers, capable of extracting the audio signal from within the eARC channel of HDMI 2.1 and transmitting the data up to 100 meters (328 feet) over category cable to a centralized audio distribution system.

“Our engineers have created an outstanding solution that maintains bit-for-bit, accurately regulated data clocking for as many as 32 uncompressed audio channels over long distances,” explained Matt Murray, CTO at AVPro Edge. “Now, integrators can effortlessly distribute uncompromised audio fidelity to any zone over category cable runs of up to 100 meters.”

The AC-AEX-DEARC-KIT is a transmitter-receiver duo, designed for audio signal codec transfer (no video data is processed) from a television to a centralized system distribution location, using the eARC feature in HDMI 2.1. 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.

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 AVPro Edge's AP-LINK technology, the AC-AEX-DEARC-KIT monitors and maintains precision audio-with-image synchronization at the display, ensuring an artifact-free presentation for all audio content. The AC-AEX-DEARC-KIT accurately manages the one megabit-per-second bidirectional data signal that is modulated on top of the eARC audio signal, responsible for synchronizing lip-sync correction data, while also handling transmission of the regularly timed "heartbeat" signal to the television (the heartbeat signal controls the muting of built-in TV speakers).

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