EDGE AI

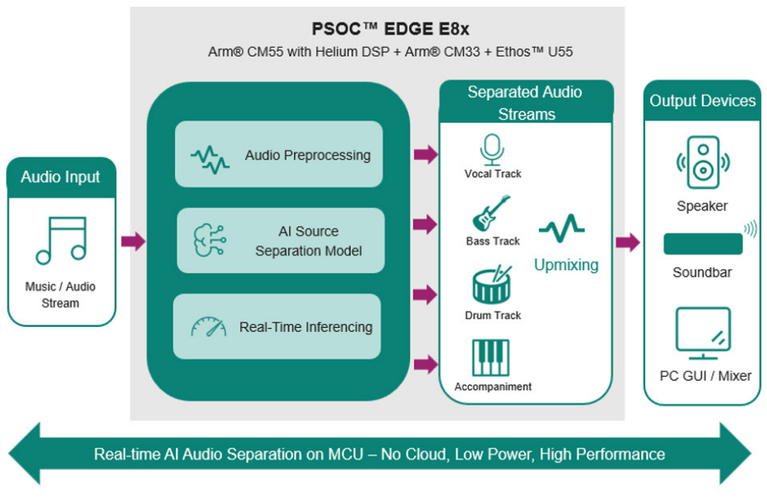
AI sound separation on PSOC™ Edge MCUs

Enable real-time sound source separation directly on MCU-class edge devices with PSOC™ Edge E8x and DEEPCRAFT™ AI Suite. Leveraging the Arm® Cortex®-M55 CPU, the Arm® Ethos™-U55 NPU, and large on-chip memory, this solution isolates vocals, drums, bass, and accompaniment with ultra-low latency, low power, and no cloud connectivity.

Benefits
- Real-time AI sound separation, upmixing, and surround sound
- Ultra-low latency (<80 ms) and small memory footprint
- Lower BOM cost vs MPU-based solutions

Highlight products
- PSOC™ Edge E8x microcontrollers
- DEEPCRAFT™ AI Suite

Applications
- Smart TVs
- Soundbars
- Karaoke systems
- Wireless microphones
- Party speakers
- Audio mixers
- Home entertainment systems
- Professional audio equipment



Scan for more information