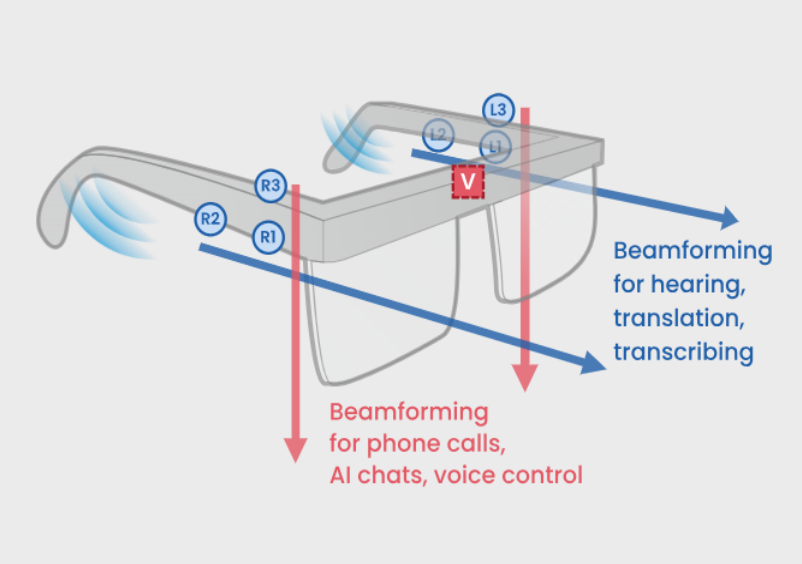
Alango Technologies – advanced voice & audio processing

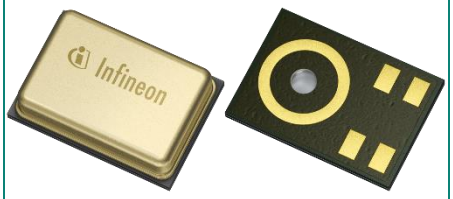
Associated Partner

Solutions for smart audio glasses & hearables



Source: Alango Technologies website

Enabled by



XENSIV™ MEMS microphone
High-performance, low-noise digital microphones that provide the high signal-to-noise ratio (SNR) required for advanced beamforming and far-field pickup.

Alango Technologies offers a comprehensive reference design for smart glasses and hearables, significantly enhancing audio quality through advanced digital signal processing (DSP).

The solution integrates Alango's OnlyVoice™ sensor fusion, far-field beamforming and Zero Latency Signal Processing (ZLSP) and Deep Neural Network based speech enhancement (AI) technologies with Infineon's high-performance hardware to address the acoustic limitations of open-ear wearable devices.

By utilizing Infineon's XENSIV™ MEMS microphones, the system offering fuses acoustic and bone-conduction inputs to isolate the user's voice from ambient noise. This hybrid approach enables three powerful operating modes:

- **Hearing enhancement**: Amplifies speech from the person in front of the user for clearer communication in noisy environments ("Personify" mode)
- **Crystal-clear voice pickup**: Delivers high-quality voice capture for calls and voice assistants, even in wind or high-noise scenarios
- **Far-field voice capture**: Accurately captures distant speech for applications such as real-time translation and meeting transcription.

Key Solution Benefits:

- Improved awareness of the environment while enjoying enhanced speech and audio
- Reliable voice isolation through combined vibration and acoustic sensing, ensuring accurate detection even in harsh noise conditions
- Natural, low-latency processing for comfortable, synchronized voice interaction
- Flexible functionality that transitions seamlessly between hearing support, telephony, and AI-driven voice control.

With these capabilities, Alango's solution enables smart glasses that provide clear communication, intuitive voice interactions, and an elevated user experience across daily, professional, and on-the-go use cases.

Target applications



Discover more

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