



Alango Announcement

May 2025



Alango Hearing Augmentation Technology on Bestechnic BES2800YP

Alango Technologies, in collaboration with Bestechnic, is leveraging the BES2800YP SoC and Alango's advanced DSP software to introduce a feature-rich solution for hearing enhancement in hearable devices, such as true wireless stereo (TWS) earbuds and smart glasses.

With over 1.5 billion people worldwide experiencing hearing loss—430 million of whom face moderate to severe impairment, there is a pressing need for accessible, effective alternatives to traditional hearing aids. Despite their availability, only 17% of those who could benefit from hearing aids use them, highlighting a significant gap in the market.

This partnership delivers a reference design that simplifies the development of hearables with integrated hearing aid functionality, reducing time and costs for manufacturers while making advanced hearing solutions more accessible to consumers. The design incorporates key technological advancements,

including ultra-low-latency signal processing, neural network noise reduction for clearer speech in noisy environments, and own-voice attenuation to address the discomfort of amplified self-voice—a common issue with traditional amplification devices.

The reference design allows manufacturers to create TWS earbuds with several user-focused attributes:

1. **Versatility:** Devices can seamlessly switch between music, calls, and hearing enhancement modes without requiring separate products.
2. **Discreet and Stylish Design:** Modern aesthetics reduce the stigma often associated with traditional hearing aids.
3. **Cost-Effectiveness:** More affordable than conventional hearing aids, making them accessible to a wider audience.
4. **User Control and Customization:** Companion apps enable users to personalize their listening experience according to their preferences.
5. **Technological Integration:** Devices can connect to smartphones for features like voice assistants and music streaming.

By bridging the gap between consumer electronics and medical-grade hearing solutions, Alango and Bestechnic aim to provide manufacturers with tools to deliver innovative, user-friendly devices that improve quality of life for millions worldwide.

Dr. Alexander Goldin, CEO of Alango Technologies, stated, "Alango's team is very excited to cooperate with Bestechnic to simplify integration of hearing augmentation into consumer-accessible products. Bestechnic offers a line of advanced Bluetooth SoCs from entry to high level, all integrating highly efficient DSP or MCU cores and offers enough power to provide solutions supporting various levels of hearing loss and price-performance tradeoffs. We sincerely value the exceptional support and technical resources provided by Bestechnic throughout our project collaborations."

"Our Bluetooth chipsets enables full-featured sound processing for TWS and other hearables including hearing enhancement, adaptive beamforming, AI powered noise reduction and user's own-voice attenuation", said Guoguang Zhao, CEO of Bestechnic. "By integrating cutting-edge hearing accessibility solutions into consumer electronics, we empower individuals worldwide to break down barriers and connect more fully with their communities, fostering a world where everyone can hear, engage, and thrive."

Companies interested in integrating hearing augmentation into their products are encouraged to contact Alango or Bestechnic for more information.

About Bestechnic

Founded in 2015, Bestechnic specializes in the development of low power wireless computing SoCs for advanced smart audio, smart wearables, wireless connectivity and smart home markets. Our engineering teams are dedicated to R&D work in a wide range of areas, including RF and analog, wireless communication, acoustic and audio signal processing, image and vision signal processing, NPU, ultra-low power computing SoC, as well as complete software stack and complex operating system. As a leading technology and SoC supplier, our products have been adopted by leading brands worldwide. Visit our website at <https://www.bestechnic.com/>

About Alango Technologies

Alango, a DSP software innovator for over 20 years, specializes in speech, audio, and hearing enhancement. Alango's solutions power branded audio devices like headphones, Bluetooth earbuds, hearing aids, conferencing systems, voice-controlled IoT, and automotive infotainment delivering crystal-clear audio with ultra-low latency and minimal computational load. Certified for Microsoft Teams, Zoom, and ITU-T standards, Alango's licensable software integrates advanced features: acoustic echo cancellation, adaptive microphone arrays, DNN-based dereverberation, classic/DNN noise reduction, direction-of-arrival detection, acoustic feedback suppression, hearing test-driven sound personalization, movie dialogue enhancement, automatic gain/volume control, and audio post-processing (stereo widening, spectral balance, bass boost)—optimizing performance for consumer and professional markets. Visit our website at <https://www.alango.com/>

Read About It

 Email us

 [alango.com](https://www.alango.com/)

 YouTube

 LinkedIn



Copyright © 2023 Alango Technologies, All rights reserved.

Our mailing address is:

Alango Technologies

2 Etgar

Tirat Carmel 3903213

Israel

[Add us to your address book](#)

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#).

This email was sent to <<Email Address>>

[why did I get this?](#) [unsubscribe from this list](#) [update subscription preferences](#)

Alango Technologies · 2 Etgar · Tirat Carmel 3903213 · Israel