



# AUDIO IP PLATFORM

## What is BAT ?

BAT is an advanced audio IP platform, providing high-fidelity audio IPs for battery powered SoC.

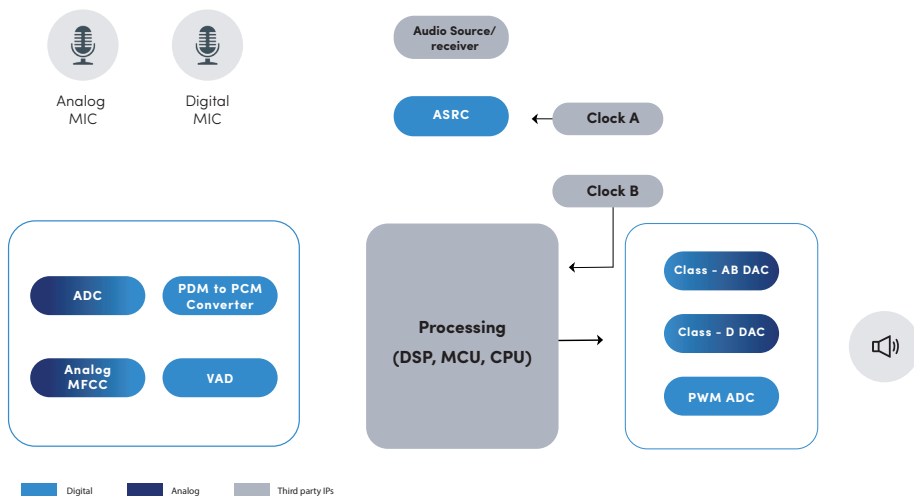
Dolphin Semiconductor portfolio brings unmatched quality, power consumption and innovation. From the industry's best ADC to the exclusive class-D IP, our audio redefines value creation, when developing IPs in-house and drastically reduce time-to-market, costs and risk.

Our solutions promise not just extended battery life but optimization of trending use cases, like ANC, beamforming or voice user interface.

## APPLICATIONS

- > Earbuds & Headsets
- > Smart Speakers
- > Wearables
- > AR/VR
- > IoT devices
- > Automotive
- > Audio smart detection

# ONE-STOP SHOP PLATFORM



## KEY PERFORMANCES

**High SNR:** 120 dB DAC; 109 dB ADC

**Low latency:** down to 1.5  $\mu$ s

**Low noise:** down to 1.78  $\mu$ Vrms

**Low power:** down to 125  $\mu$ A ADC

Low gate count ASRC and PWM DAC

8  $\mu$ A Voice Activity Detection

4  $\mu$ A Analog feature extraction

## KEY FEATURES

0° Phase mismatch between channels

Analog & Digital VAD

Digital DAC

PLL-less audio codec

Customizable audio codec



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