



BAT : AUDIO PLATFORM

35 years of experience

WHAT IS BAT ?

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

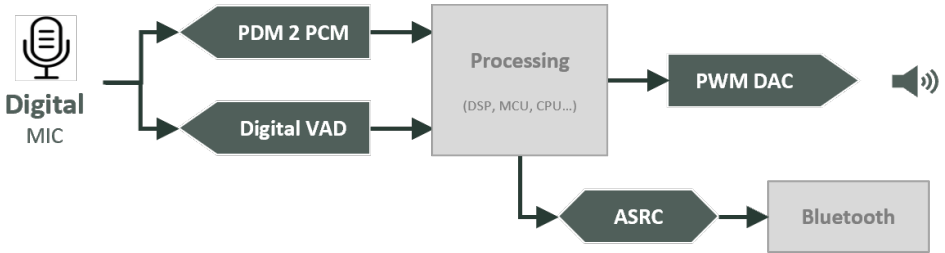
Dolphin Design portfolio brings unmatched quality, power consumption and Innovation. From the industry's best ADC to the exclusive class-D IP, our audio redefines value creation, when developing IPs in-house and drastically reduce time-to-market, costs and risk. Our solutions promise not just extended battery life but optimization of trending use cases, like ANC, beamforming or voice user interface.

APPLICATIONS

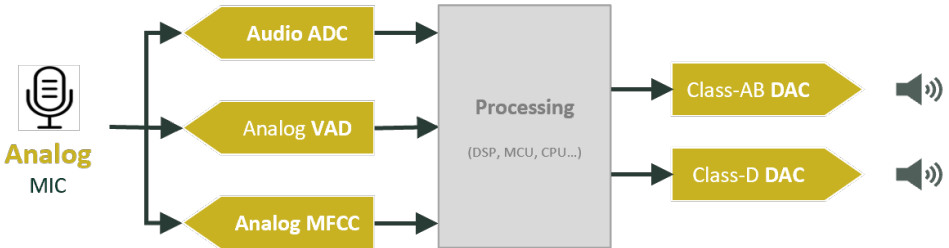
- Earbuds & headsets
- Smart Speaker
- Wearables
- AR/VR
- IoT devices
- Automotive
- Audio smart detection

One-Stop-Shop Platform

Digital Audio IPs. Process agnostic



Analog Audio IPs. From 55 to 12 nm



Key Performances

- High SNR: 120 dB DAC; 109 dB ADC
- Low latency: down to 2 μ S
- Low noise: down to 1.78 μ Vrms
- Low power: down to 125 μ A ADC
- Low gate count ASRC and PWM DAC
- 8 μ A Voice Activity Detection
- 4 μ A Analog feature extraction

Key Features

- 0° Phase mismatch between channels
- Analog & Digital VAD
- Digital DAC
- PLL-less Audio codec
- Customizable audio codec



DOLPHIN
DESIGN