DOLPHIN
SEMICONDUCTOR

PATENTED TECHNOLOGY

BAT: AUDIO PLATFORM
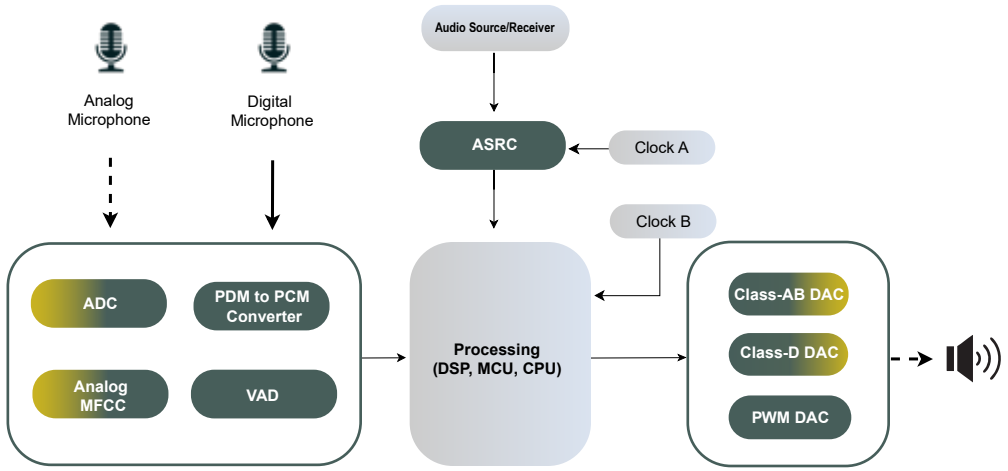
35 years of experience

WHAT IS BAT?

BAT is an advanced audio IP platform, providing high-fidelity audio IPs for battery powered SoC.
Dolphin 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 µs
- Low noise: down to 1.78 µVrms
- Low power: down to 125 µA ADC
- Low gate count ASRC and PWM DAC
- 8 µA Voice Activity Detection
- 4 µA 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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