



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

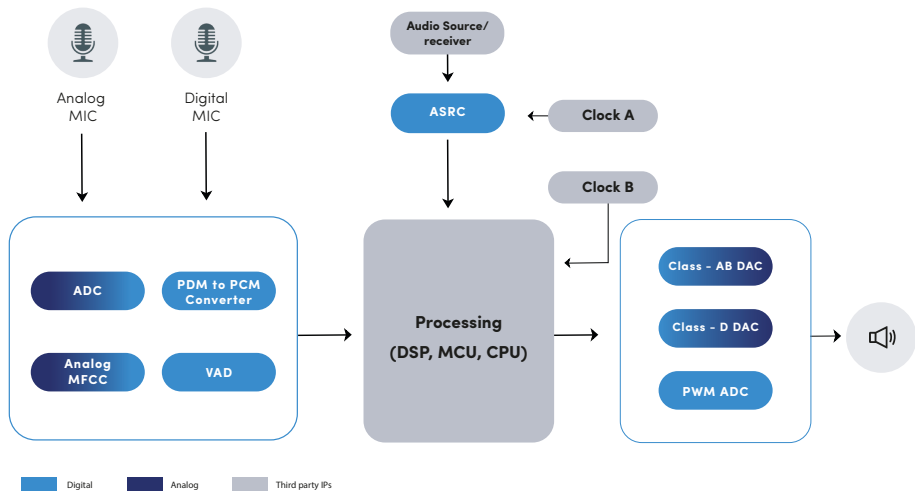
> AR/VR

> 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 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



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