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AK4957EN Low Power 24-Bit 2ch ADC & 2ch DAC with ALC/Eq and Mic/SPK/Video-Amp

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Description

The AK4957 is a 24bit stereo CODEC with a microphone, speaker, video amplifiers and LDO. The input circuits include a microphone amplifier and the output circuits include a speaker amplifier. It is suitable for portable application with recording/playback function. A one channel composite In/Out video amplifier is also integrated. The AK4957 is available in a small 32pin QFN (4mm x 4mm, 0.4mm pitch), saving mounting area on the board.

Key Features

1. Recording Functions

- Stereo Single-ended input with two Selectors
- MIC Amplifier (+21dB/+18dB/+16dB/+14dB/+8dB/0dB)
- Digital ALC (Automatic Level Control)

(Setting Range: +36dB to -54dB, 0.375dB Step)

- ADC Performance: S/(N+D): 83dB, DR, S/N: 88dB (MIC-Amp=+18dB)

S/(N+D): 85dB, DR, S/N: 96dB (MIC-Amp=0dB)

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Block Diagram



