

High-Quality 24-bit Stereo DAC Solution

NAU8421YG • High Performance • Low Power

Introduction

The NAU8421YG is a high-quality 24-bit stereo DAC with 8Vpp differential analog output capability, 128dB SNR and -99dB THD+N. This device includes an I²C control interface with additional pin selectable features and standalone operation. The NAU8421YG operates from a 3.3V digital I/O supply voltage and an analog 5V supply voltage. Additionally, the NAU8421YG includes automatic clock detection sequences for smooth power up & power down control. This enables fast and efficient system integration.

Features

- Full 8Vpp output from a single 5V DC supply
- Fully differential analog outputs
- Low-cost, small-footprint package
- Automatic clock detection and output muting for power-on and no-signal conditions
- I²S slave supporting up to 192 kHz sample rate, determined by clock frequency ratios

Specifications

- Operating voltage: 3.0-5.5V
- Up to 192 kHz audio sample rate
- 128dB SNR A-weighted performance
- -99dB THD+N
- 105dB PSRR at 1kHz
- 140dB channel separation at 1kHz
- Package: Pb-free 32-pin QFN
- Operating temperature range: -40 to +85°C

Applications

