

CS4304P
CS4308P



Pro Audio DACs Deliver True Transparent Audio

World-class performance that's easy to use and integrate

Excellent performance

with 123 dB DNR
and better than
-114 dB THD+N

Uncompromising digital

providing 32-bit audio at
a sample rate of
up to 768 kHz

Industry-leading low power consumption

at 10 mW/ch

Simple to integrate

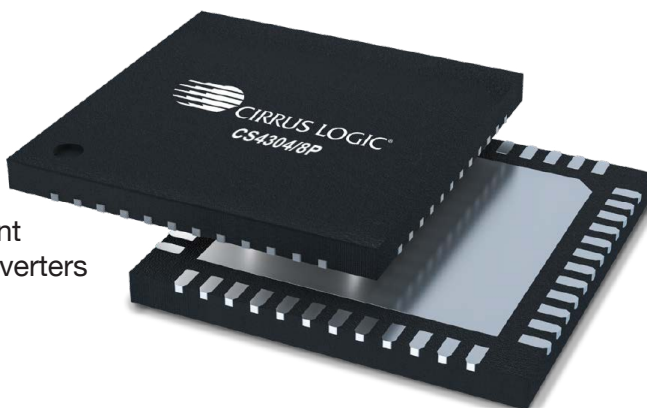
using one rail with
power supply reject
and hardware mode

Configurable digital filters

help our customers
personalize the
audio experience

Cirrus Logic CS4304P CS4308P

32-bit Transparent
Digital-to-Analog Converters



The **Cirrus Logic CS4304P and CS4308P** are part of a new series of pro audio converters aimed at providing the most transparent audio conversion. This transparency allows manufacturers to customize their end products.

The **CS4304/8P** are high-performance, 32-bit resolution 4/8-channel DACs. The devices support differential analog outputs and 32-bit digital input via the audio serial port (ASP) at sample rates up to 768 kHz. The CS4304/8P both use a proprietary analog FIR architecture to reduce out-of-band noise and minimize the external component requirements.

This provides a dynamic range of 123 dB and THD+N below -114 dB, all within a 10 mW/ch power budget.

The devices can be powered from a single rail and controlled by either hardware pins, I2C or SPI, making the devices both flexible and easy to integrate. This makes both the **CS4304/8P** ideal for digital mixers, USB audio interfaces, home audio and audio video receivers, plus musical instruments such as synthesizers, DJ mixers and amplifiers.

CS4304P CS4308P



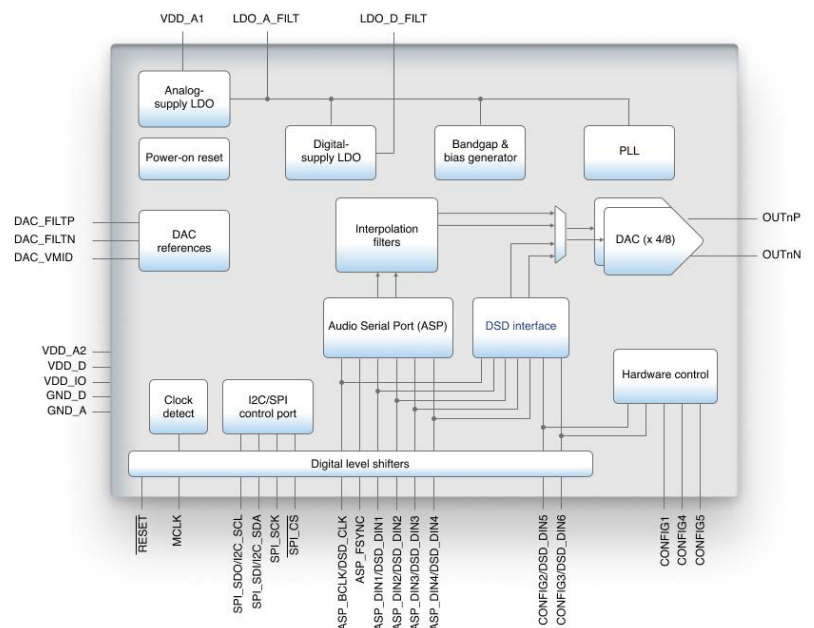
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Master HIFI
FROM CIRRUS LOGIC

Product Overview

- High-performance 4/8-channel DAC
 - Differential analog outputs
 - High-resolution 32-bit digital architecture
 - Low-latency digital filters and digital volume control
- PLL supports range of external system-clock references
- Synchronous operation across multiple devices
- Audio serial port (ASP) sample rates up to 768 kHz
 - I2S, left-justified and TDM data formats
 - DSD up to 512xfs
- Hardware and software control modes
 - Hardware control with no host processor required
 - I2C control port up to 1 MHz
 - SPI control port up to 24 MHz
- Single supply operation at 3.3 V
 - Support for 1.8 V–3.3 V digital input/output

CS4304P and CS4308P Block Diagram



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