

Pro Audio DACs Deliver True Transparent Audio

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



Excellent performance

with 129 dB DNR and better than -115 dB THD+N

Uncompromising digital

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

Simple to integrate

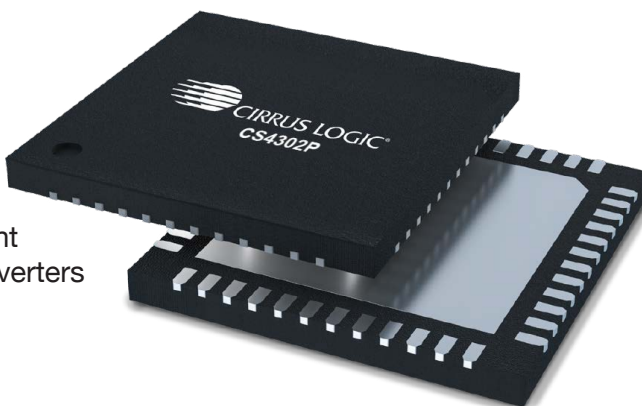
using one rail with power supply reject and hardware mode

Configurable digital filters

help our customers personalize the audio experience

Cirrus Logic CS4302P

32-bit Transparent Digital-to-Analog Converters



The **Cirrus Logic CS4302P** is 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 **CS4302P** is a high-performance, 32-bit resolution 4/8-channel DACs. The device support differential analog outputs and 32-bit digital input via the audio serial port (ASP) at sample rates up to 768 kHz. The CS4302P uses a proprietary analog FIR architecture to reduce out-of-band noise and minimize the external component requirements.

This provides a dynamic range of 129 dB and THD+N below -115 dB.

The device 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 the **CS4302P** ideal for digital mixers, USB audio interfaces, home audio and audio video receivers, plus musical instruments such as synthesizers, DJ mixers and amplifiers.

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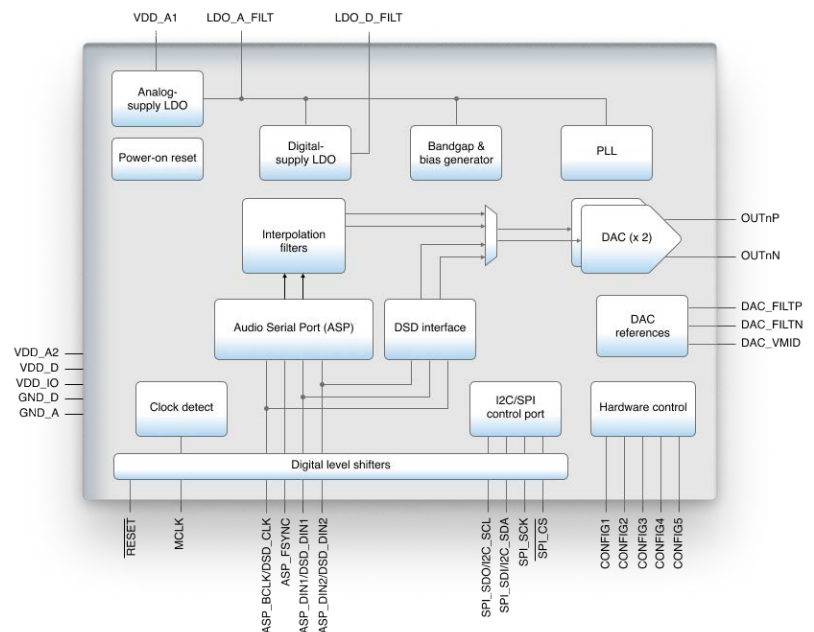


Master HIFI
FROM CIRRUS LOGIC

Product Overview

- High-performance Stereo 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

CS4302P Block Diagram



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