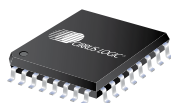


CS4353

GROUND-CENTERED 3.3 V AUDIO DAC WITH 2 V_{RMS} LINE-DRIVER



CS4353 24-PIN QFN

(actual size: 4 mm x 4 mm)



Part	Resolution (bits)	Dynamic Range (dB)	THD+N (dB)	Sample Rate (kHz)	Analog Outputs	Power Supply (V)	Comments	Package
CS4353	24	106	-93	192	Single-ended	VA/VD = 3.3; VL = 0.9 to 3.3	2 V _{RMS} line driver	24-QFN

The CS4353 is an audio stereo D/A converter with an on-chip 2 V_{RMS} line driver working from a single 3.3 V power supply. It features digital interpolation, fifth-order multibit Delta Sigma digital-to-analog conversion, digital de-emphasis and analog filtering.

The CS4353 offers a high level of integrated features that simplify board designs by reducing the need for numerous external components. Based on a charge-pump architecture, the CS4353 outputs a 2 V_{RMS} voltage without the need for high voltage regulator. It also features a ground-centered output architecture, removing the need for external DC blocking capacitors and any pop prevention circuit.

The CS4353 is ideal for any application that requires a line-level output such as Digital TV, Blu-ray players, set-top boxes, video game consoles, DVD players and recorders, personal video recorders (PVRs) and DVD receivers. Additional applications include digital mixing consoles, multi-track recording systems, outboard converters and effects processors.

The CS4353 achieves 106dB dynamic range and is available in a 24-pin QFN package (4 x 4 mm) in commercial (-40°C to +85°C) grade. The CDB4353 Customer Demonstration Board is also available for device evaluation and implementation suggestions.

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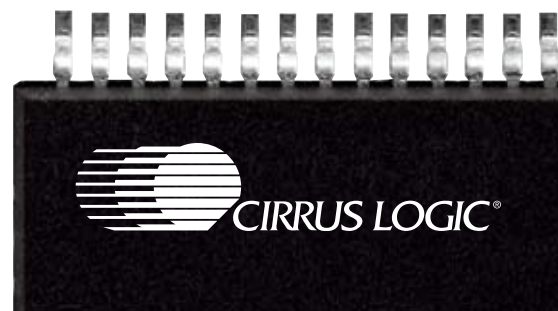
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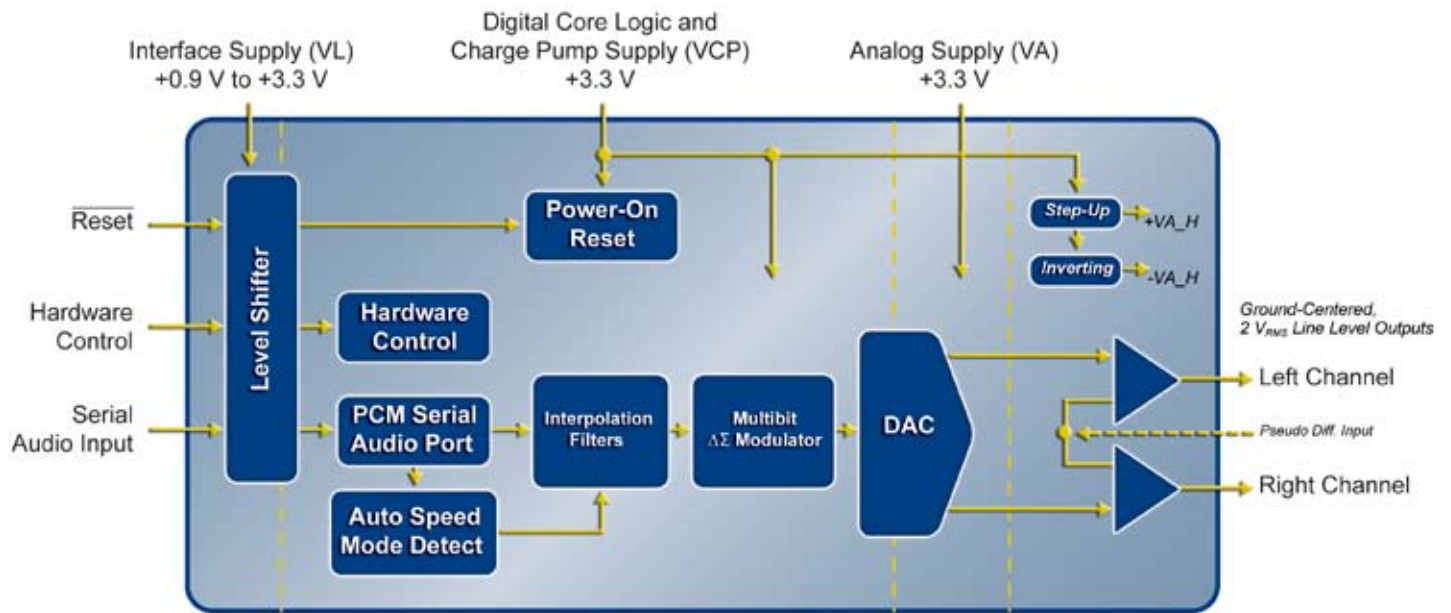
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LEARN MORE AT

www.cirrus.com





CS4353 FEATURES

- Multibit Delta-Sigma modulator
- 106 dB A-wt dynamic range
- -93 dB THD+N
- Single-ended ground centered analog architecture
- No DC-blocking capacitors required
- Integrated step-up/inverting charge pump
- Filtered line-level outputs
- Selectable 1 or 2 V_{RMS} full-scale output
- Low clock-jitter sensitivity
- Low-latency digital filtering
- Supports sample rates up to 192 kHz
- 24-bit resolution
- +3.3 V charge pump and core logic, +3.3 V analog, and +0.9 to 3.3 V interface power supplies
- Low power consumption
- 24-pin QFN, 4x4 mm