The CS5368 premium-performance audio A/D converter is designed for today's demanding surround-sound consumer and multichannel pro audio applications. The highly integrated IC provides developers with a space-saving solution that streamlines product development, reduces design complexity and lowers overall system costs compared to boards that use multiple stereo A/D converters for surround-sound or multichannel designs. The end result? Smaller audio equipment that can be produced at a lower cost compared to today's products.

New Multichannel A/D Converter Delivers High-End Audio While Reducing System Costs

**Premium Audio Performance**

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The CS5368 is the industry's first audio A/D converter to support a high-speed TDM interface which provides a serial output of 8 channels of audio data with sample rates up to 192 kHz within a single data stream. This capability reduces layout complexity and relieves input/output constraints in digital signal processors. The on-chip level-shifter and oscillator driver further reduce complexity and simplify system design. The IC also features a differential architecture that provides excellent noise rejection and performs sampling, analog-to-digital conversion and anti-alias filtering.

**Applications**

- A/V Receivers
- Home theater systems
- Digital mixing consoles
- Multi-track recording systems
- Broadcast studio equipment
- Digital effects processors
- Outboard audio converters
- PC sound cards
- Automotive audio systems

The CS5368 uses a 5th-order, multi-bit Delta-Sigma architecture that provides superior 114 dB dynamic range and negligible distortion. Low-latency digital filtering, with the industry's shortest group delay, further preserves the original audio quality and experience, making the ICs ideal for real-time and live-sound applications.

The flagship CS5368 is an 8-channel converter and the CS5366 and CS5364 are its pin-compatible 6- and 4-channel family members. Competitively priced at $11.61 in quantities of 10K units, the CS5368 is an ideal solution for audio engineers who desire high-end fidelity at a competitive price.

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