New Highly Integrated Stereo CODEC with S/PDIF Output Provides Premium Audio Performance

The new CS4265 stereo CODEC advances the Cirrus Logic® mixed-signal audio IC portfolio and provides an integrated, small, and cost-effective solution — enabling designers to deliver precisely what manufacturers need to get premium audio products to market fast.

The CS4265 features an integrated front-end with 2:1 input multiplexer and programmable gain amplifier capable of ±12 dB analog gain in 0.5 dB step sizes with zero crossing, click-free transitions to maintain sonic quality. One pair of inputs has a dedicated microphone pre-amplifier in its path that provides +32 dB of gain, and there is also a low-noise microphone bias supply available.

The stereo A/D and D/A conversion is based on a multi-bit Delta-Sigma architecture and supports 24-bit conversion and sample rates up to 192 kHz. Single-ended inputs and outputs are offered, and the outputs feature Cirrus Logic’s Popguard® technology to eliminate power cycling clicks and pops, further reducing the number of external components required. The CS4265 operates from either a +3.3 V or +5 V power supply and has +1.8 V to +5 V logic power supplies for the control and serial port to allow for direct interface to external processors or micro-controllers without level shifting.

A synchronous S/PDIF (IEC60958-3) digital audio transmitter is integrated to provide additional design flexibility and lower system cost.

Engineered for performance, this new CODEC delivers professional audio quality at a breakthrough price point.

Applications

- DVD recorders
- DVD receivers
- Digital video recorders/personal video recorders
- Digital televisions
- Set-top boxes and home media centers
- Automotive entertainment systems
- Notebook computers
- PC sound cards

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