

New Stereo CODECs Deliver High-Performance Audio

Pin-Compatible Family offers 24-bit Conversion, 192 kHz Sample Rates

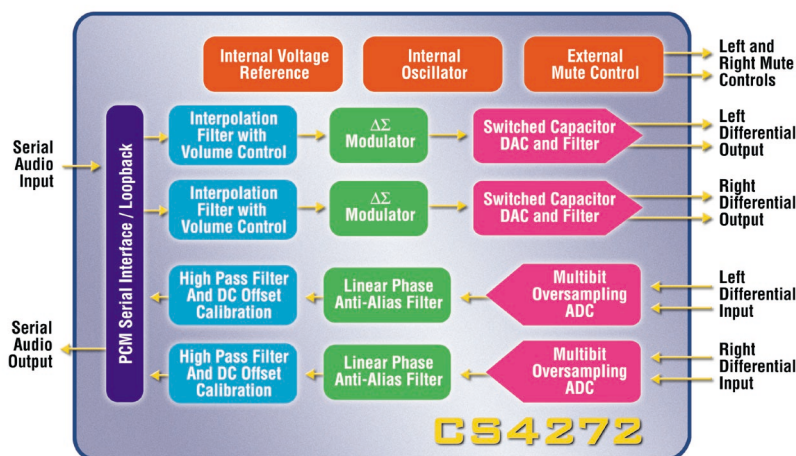
CS4272 Features

- Complete stereo CODEC
- 24-bit conversion
- System sampling rates up to 192 kHz
- 114 dB dynamic range
- -100 dB THD+N
- Output digital volume control with soft ramp
- Selectable digital filter response
- Configurable ATAPI mixing functions
- High pass filter or DC offset calibration
- Linear phase digital anti-alias filter
- Differential analog architecture
- On-chip oscillator
- Supports Master or Slave mode operation
- 5 V analog power supply
- 3-5 V digital power supply
- Supports direct interface to logic levels from 2.5 V to 5.0 V
- Pin-compatible with CS4271
- Available in 28-pin TSSOP
- CS4272 price: \$5.57 (10 K)
- CS4271 price: \$4.87 (10 K)

CS4272/71 Applications

- Digital mixing consoles
- Effects processors
- Musical instruments
- DVD recorders
- Set-top box systems
- A/V receiver
- Automotive audio systems

Actual Size



The CS4272/71 are highly integrated, 24-bit, stereo CODECs featuring a wide dynamic range, negligible distortion and premium sound quality that make them ideal for applications such as digital mixing consoles, DVD recorders, set-top boxes and automotive audio systems. Designers of these products will appreciate the superior audio quality and unmatched analog performance that these CODECs offer. Both CODECs support sample rates of up to 192 kHz, share the same footprint and are offered in a low-profile, 28-pin TSSOP package.

The CS4272/71 integrate an analog-to-digital converter and a digital-to-analog converter into a single-chip solution, thereby providing cost-efficiency as well as reduced board space requirements. The CS4271 utilizes a single-ended input architecture versus the differential inputs employed by the CS4272 and is ideal for cost-sensitive applications. Because both chips share a common footprint, designers can quickly and easily interchange their designs with either solution to enable varied end-product performance, reduce development costs, and accelerate time to market.

Both solutions offer manufacturers the ultimate system flexibility with an on-chip oscillator, output volume control with soft ramp and zero crossing, selectable digital filter response, and integrated level shifters for direct interface to logic levels from 2.5 V to 5 V.

The CS4272 offers 114 dB dynamic range and -100 dB THD+N, delivering excellent quality ADC and DAC performance at price points starting at \$5.57 in 10 K qty. The CS4271 delivers the same DAC performance and ADC readings of 108 dB dynamic range and -98 dB THD+N at price points starting at \$4.87 in 10 K qty.