

# New Low Voltage Codec Offers Highest Integration and Best Sound Quality for Portable Audio Products

## CS42L50 Features

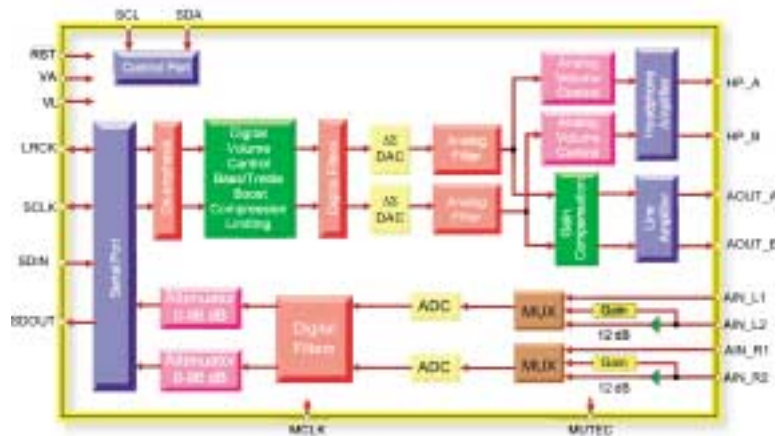
- 24-Bit conversion, 96 kHz sample rate
- 1.8 to 3.3 Volt supply
- 19 mW power consumption in playback mode
- 96 dB ADC/DAC dynamic range
- -88/-85 dB ADC/DAC THD+N

### Inputs

- 2:1 stereo MUX
- Microphone or line input amplifier with up to 32 dB gain
- Digital attenuation

### Outputs

- Digital volume control
  - 1 dB steps
  - 96 dB attenuation
  - Zero crossing
- Programmable bass and treble boost
- Dynamic range compression and limiting
- Headphone amplifier
  - 17 mW power output into 16 Ω load @ 3.3 V supply
  - -80 dB THD+N
  - 34 dB analog attenuation and mute
- Available in a 28-Pin low profile CASON package
- Price: \$3.64 (1K)



CS42L50, our new low voltage Codec with integrated headphone amplifier, offers a new level of audio performance for portable audio products. Delivering 96 dB dynamic range for the stereo ADC and DAC along with -80 dB THD+N for the integrated headphone amplifier, CS42L50 delivers outstanding sound quality. Also, CS42L50 offers integrated digital sound effects including bass and treble boost plus dynamic range compression and limiting. It's an ideal solution for portable MP3 and MD recorders/players, digital camcorders, PDAs, and other portable recording systems.

CS42L50 integrates all of the mixed signal blocks for a portable audio system including: 2:1 stereo input MUX, analog input amplifier, stereo ADC, digital sound effects, stereo DAC, output analog volume control, headphone amplifier, and line outputs. It provides low power consumption and operates from a 1.8 V to 3.3 V supply – CS42L50 runs from the same supply as the digital processor in portable audio systems.

CS42L50 is sound quality and integration combined with its extremely low power consumption – only 19 mW in playback mode – make it the perfect fit for portable audio players/recorders.