



Products / CS42L42

Low Power Audio Codec with SoundWire and Audio Processing

CS42L42 Product Data Sheet

DS1083F6 (PDF)



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The CS42L42 is a low power audio codec with integrated MIPI SoundWire[®] interface or I²C/I²S/TDM interfaces designed for portable applications. It provides a high dynamic range, stereo DAC for audio playback and a mono high dynamic range ADC for audio capture. The CS42L42 features high performance up to 24-bit audio for ADC and DAC audio playback and capture functions and for the S/PDIF transmitter. The CS42L42 architecture includes bypassable SRCs and a bypassable, three-band, 32-bit parametric equalizer that allows processing of digital audio data. A digital mixer is used to mix the

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ADC or serial ports to the DACs. There is independent attenuation on each mixer input. The processing along the output paths from the ADC or serial port to the two stereo DACs includes volume adjustment and mute control.

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Technologies

Portable Codecs

Features

Analog I/O

- Stereo headphone output with 114 dB dynamic range
- 2 × 35 mW output power into 30 Ω
- Mono mic input with 114 dB dynamic range
- Integrated AC-coupling capacitors
- OMTP and AHJ headset-type detect
- Mic short S0 button detect with ADC auto-mute

System Features

- Mono equalizer and sidetone mix
- MIPI SoundWire or I²S/TDM audio interface
- Audio sample rate converters
- S/PDIF transmitter
- Fractional-N PLL
- Integrated power management

Parametric Specifications

DACs	2
ADCs	1
DAC THD+N (dB)	-90
ADC THD+N (dB)	-85
Sample Rate (kHz)	8-192
Analog Power Supply (V)	1.8
Package	49 WLCSP; 48 QFN

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