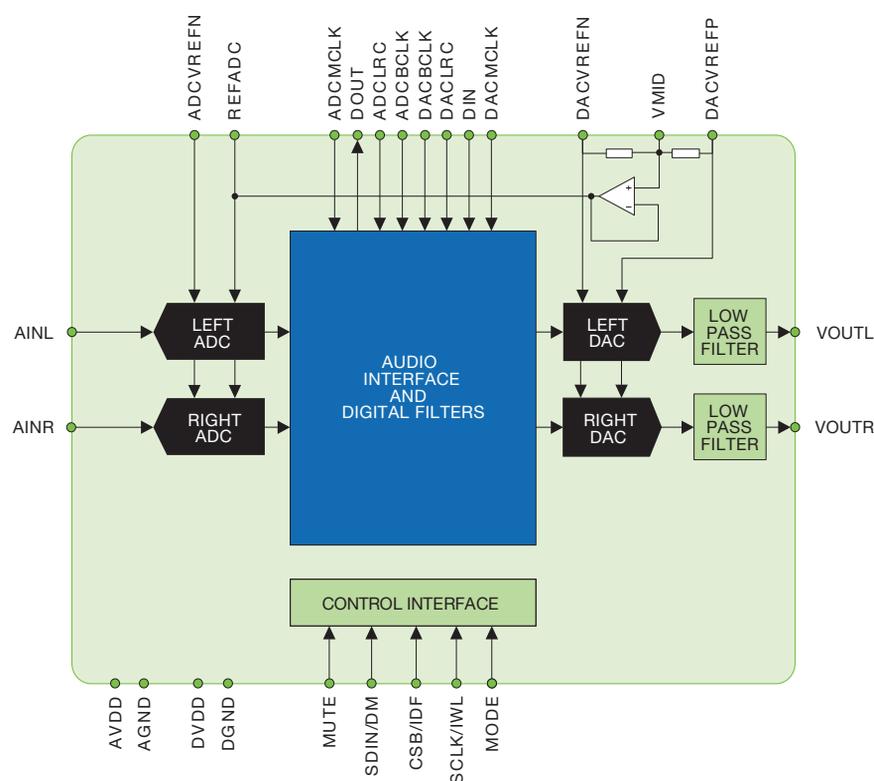


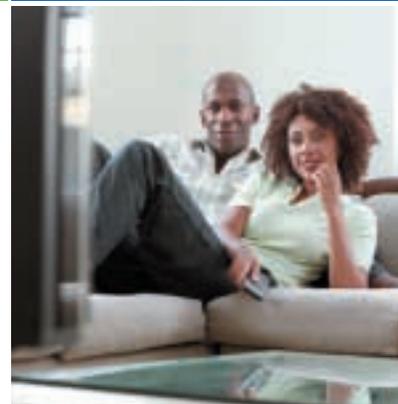
24-bit, 192kHz Stereo CODEC with Volume Control

A versatile stereo CODEC combining an independently clocked ADC and DAC in a single cost effective device.

The WM8569 is a stereo audio CODEC ideal for DVD, PVR, LCD-TV and automotive applications.



WM8569



PRODUCT DETAILS

FULLY INDEPENDENT ADC AND DAC RATES

Independent ADC and DAC clocking permits separate record and playback sampling rates, vital for most modern applications. A stereo 24-bit multi-bit sigma delta DAC with oversampling digital interpolation filters provides the output signal. Digital audio input word lengths from 16-24 bits and sampling rates from 8kHz to 192kHz are supported.

Stereo analog-to-digital conversion is provided by a 24-bit multi-bit sigma delta ADC, again supporting output word lengths from 16-24 bits and sampling rates from 32kHz to 96kHz.

The audio data interface supports I²S, left justified, right justified and DSP digital audio formats.

PRODUCT BENEFITS

- All the benefits of an independent audio DAC and ADC in one device. Simplifies designs and lowers costs for home entertainment systems
- Independent ADC and DAC rates and formats on the same chip
- Hardware control for easy design implementation
- High performance audio at a competitive price
- Low pin count and PCB space reduces manufacturing costs

TARGET APPLICATIONS

- DVD Recorder
- Personal Video Recorder
- PC Sound Card
- Automotive Audio
- LCD-TV

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WM8569**PRODUCT FEATURES**

- 103dB SNR ('A' weighted @ 48kHz) DAC
- DAC Sampling Frequency: 8kHz – 192kHz
- 100dB SNR ('A' weighted @ 48kHz) ADC
- ADC Sampling Frequency: 32kHz – 96kHz
- Independent Sampling Rates for ADC and DAC
- 3-wire SPI Serial or Hardware Control Interface
- Volume Control Audio Mute and De-Emphasis Functions
- Programmable Audio Data Interface Modes
- 16/20/24/32 bit Word Lengths
- I²S, Left, Right Justified or DSP
- 2.7V to 5.5V Analogue Supply
- 2.7V to 3.6V Digital Supply
- 28-pin SSOP Package

PRODUCT DETAILS**HARDWARE OR SOFTWARE CONTROL**

The device can be controlled via a 3-wire serial or hardware interface. The software interface provides access to all features including volume controls, mute, de-emphasis and power management facilities. A hardware control interface allows access to a core feature set.

FEWER PARTS, FEWER PINS AND LESS PCB SPACE

The WM8569 is available in a compact 28-pin SSOP.

CONTACT DETAILSwww.wolfsonmicro.com**WORLD HEADQUARTERS****Wolfson Microelectronics plc**

Westfield House
26 Westfield Road
Edinburgh
EH11 2QB
United Kingdom

t: +44 (0)131 272 7000
f: +44 (0)131 272 7001
e: europe@wolfsonmicro.com

USA SALES OFFICE**Wolfson Microelectronics, Inc.**

16875 West Bernardo Drive
Suite 280
San Diego
CA 92127
USA

t: +1 (0)858 676 5090
f: +1 (0)858 676 0484
e: usa@wolfsonmicro.com

JAPAN SALES OFFICE**Wolfson Microelectronics plc**

6F Shinbashi 29 Mori Building
4-2-1 Shinbashi
Minato-ku
Tokyo 105-0004
Japan

t: +81 (0)3 5733 8677
f: +81 (0)3 3578 1488
e: japan@wolfsonmicro.com

ASIA PACIFIC SALES OFFICE**Wolfson Microelectronics plc**

2F, No.39, Alley 20
Lane 407, Sec. 2
Tiding Boulevard, NeiHu District
Taipei 114
Taiwan

t: +886 (0)2 875 11600
f: +886 (0)2 875 10201
e: asia@wolfsonmicro.com

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