

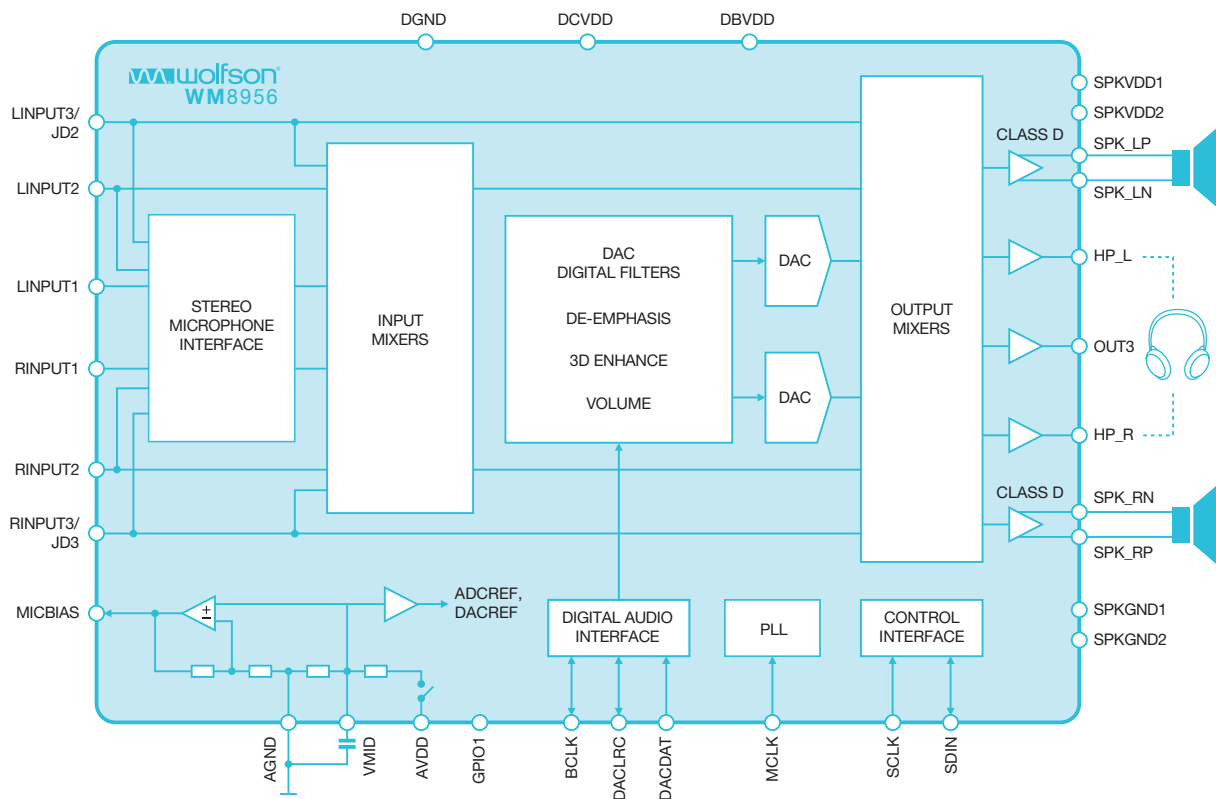
Stereo Hi-fi DAC with 1W/Channel Speaker Driver

WM8956

Hi-fi stereo DAC with integrated Class D speaker drivers, delivering 1W per channel into 8Ω speakers.

The WM8956 delivers 1W per channel of high quality audio using filterless Class D technology. This enables maximum efficiency, extends battery life, saves space and simplifies PCB design.

Integrated 24-bit DACs, headphone amplifiers and a highly flexible analogue input structure provide a high level of integration for space-constrained portable applications.



PRODUCT BENEFITS

- High fidelity quality audio
- Extends battery life
- Reduces external component count
- High speaker power output

TARGET APPLICATIONS

- Portable media players
- Games consoles
- Multimedia phones
- In-car infotainment

PRODUCT FEATURES

- 98dB DAC SNR
- 1W/channel speaker driver
 - Signal boost with no extra components
 - >70dB PSRR
 - <1uA leakage
- Flexible input mixing
- Headphone drivers
 - Capless mode support
- Pop and click suppression
- Low jitter PLL
- Full volume control
- Low noise MIC bias
- 3D stereo enhancement

PRODUCT DETAILS
HIGH QUALITY, HIGH POWER OUTPUT

The WM8956 is a stereo hi-fi DAC with stereo speaker and headphone drivers for portable multimedia devices requiring high quality at high output power and a longer battery life.

LONGER BATTERY LIFE, SMALL SIZE

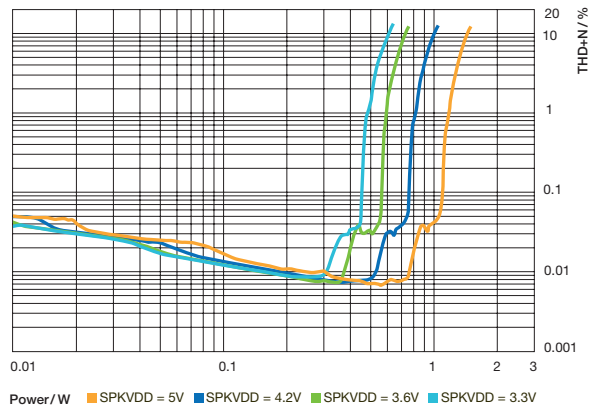
Low leakage, excellent PSRR and fully internal signal boosting enable direct connection to a lithium battery. This saves power, maximises quality at high volume levels and reduces component count. Class D technology provides high power output at high levels of efficiency, extending battery life and simplifying PCB layout and thermal management issues. A 5x5mm QFN package provides a high level of integration and excellent thermal performance in a small footprint.

REDUCED COMPONENT COUNT

Stereo headphone drivers support capless mode, further reducing component count. Integrated pop and click suppression mechanisms remove the need for external speaker or headphone amplifiers.

TOTAL HARMONIC DISTORTION VS OUTPUT POWER

$R_L=8\Omega$, $f=1\text{kHz}$


CONTACT DETAILS
www.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, Neil-Hu District
 Taipei 114
 Taiwan

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

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