

PRODUCT OVERVIEW



WM8736

24-BIT 96KHZ 6-CHANNEL DAC WITH VOLUME CONTROL

The WM8736 is a high performance 6-channel DAC designed for audio applications such as DVD, home theatre systems, and digital TV. The WM8736 supports data input word lengths from 16 to 24-bits and sampling rates up to 96kHz. The WM8736 consists of a serial interface port, digital interpolation filter, multi-bit sigma delta modulator and 6 DACs in a small 28-pin SSOP package. The WM8736 also includes a digitally controllable mute and attenuator function on each channel.

The WM8736 supports a variety of connection schemes for audio DAC control. The SPI-compatible serial control port provides access to a wide range of features including on-chip mute, attenuation and phase reversal. A hardware controllable interface is also available.

The programmable data input port supports a variety of glueless interfaces to popular DSPs, audio decoders and S/PDIF and AES/EBU receivers.

FEATURES

- 6-Channel DAC
- Performance:
102dB SNR ('A' weighted @48kHz), THD+N: -90dB @ -0.5dB F.S, 5V or 3V Supply Operation
- Sampling Frequency: 8kHz to 96kHz
- Input data word: 16 to 24-bit
- Hardware or SPI compatible serial port control modes
 - Hardware mode: System clock, reset, mute
 - Serial control mode: Mute, de-emphasis, digital attenuation (256 steps), zero mute, phase reversal, power down

ORDERING INFORMATION

DEVICE	TEMP. RANGE	PACKAGE
XWM8736EDS	-25 to 85 ⁰ C	28-pin SSOP

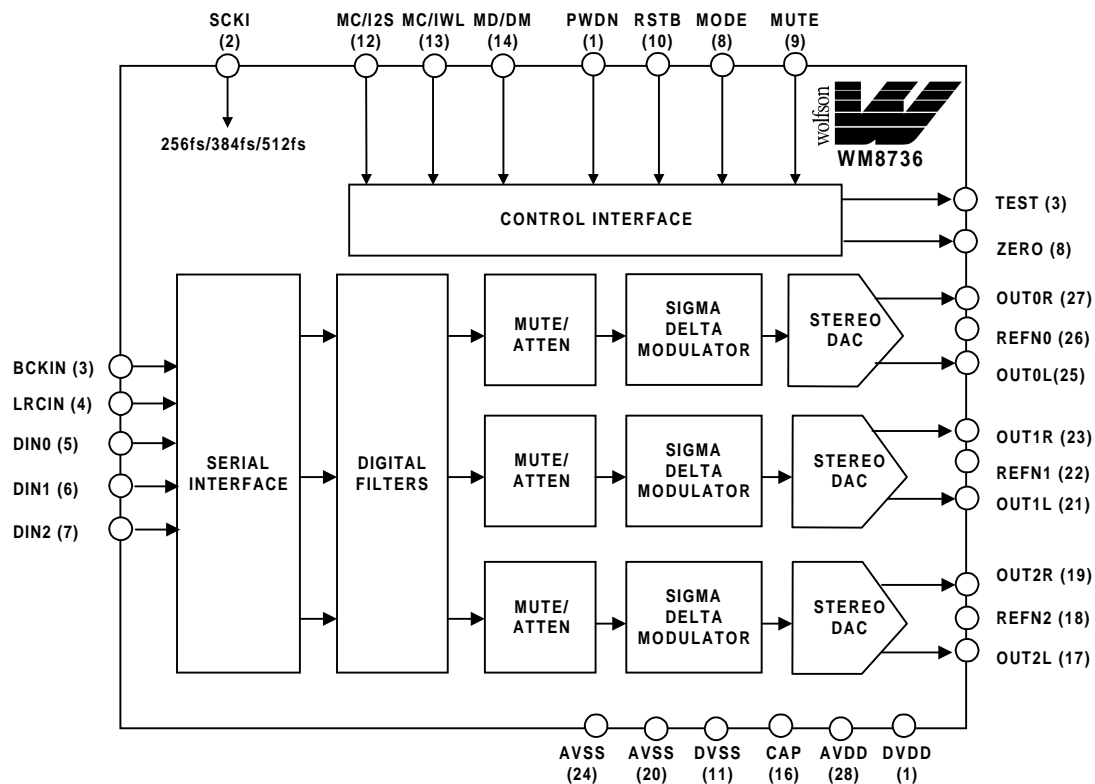
APPLICATIONS

- DVD
- Home theatre systems
- Digital TV

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WM8736 BLOCK DIAGRAM



PIN OUT

