

**FEATURES**

5.0 V Stereo Audio ADC  
with 3.3 V Tolerant Digital Interface  
Supports 96 kHz Sample Rates  
Supports 16-/20-/24-Bit Word Lengths  
Multibit Sigma-Delta Modulators with  
"Perfect Differential Linearity Restoration" for  
Reduced Idle Tones and Noise Floor  
105 dB (Typ) Dynamic Range  
Supports 256/512 and 768  $\times$   $f_s$  Master Clocks  
Flexible Serial Data Port  
Allows Right-Justified, Left-Justified, I<sup>2</sup>S Compatible  
and DSP Serial Port Modes  
Cascadable (up to Four Devices) from a Single DSP  
SPORT  
Device Control via SPI Compatible Serial Port or  
Optional Control Pins  
On-Chip Reference  
28-Lead SSOP Package

**APPLICATIONS**

Professional Audio  
Mixing Consoles  
Musical Instruments  
Digital Audio Recorders, Including  
CD-R, MD, DVD-R, DAT, HDD  
Home Theater Systems  
Automotive Audio Systems  
Multimedia

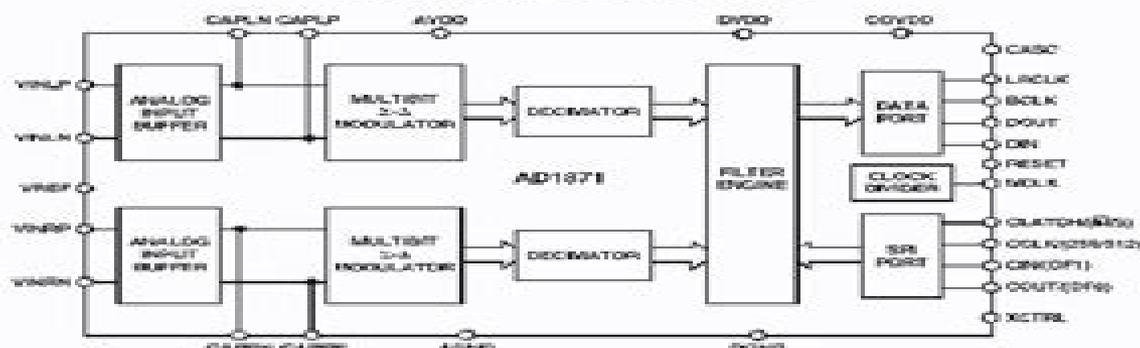
**PRODUCT OVERVIEW**

The AD1871 is a stereo audio ADC intended for digital audio applications requiring high performance analog-to-digital conversion. It features two 24-bit conversion channels each with programmable gain amplifier (PGA), multibit sigma-delta modulator, and decimation filters. Each channel provides 105 dB of dynamic range, making the AD1871 suitable for applications such as digital audio recorders and mixing consoles.

Each of the AD1871's input channels (left and right) can be configured as either differential or single-ended (two inputs mixed with internal single-ended-to-differential conversion). The input PGA features a gain range of 0 dB to 12 dB in steps of 3 dB. The  $\Sigma$ - $\Delta$  modulator features a proprietary multibit architecture that realizes optimum performance over an audio bandwidth with standard audio sampling rates of 96 kHz up to 96 kHz. The decimation filter response features very low pass-band ripple and excellent stop-band attenuation.

The AD1871's audio data interface supports all common interface formats such as I<sup>2</sup>S, left-justified, right-justified as well as other modes that allow for convenient connection to general-purpose digital signal processors (DSPs). The AD1871 also features an SPI compatible serial control port that allows for convenient control of device parameters and functionality such as sample word-width, PGA settings, interface modes, and so on.

The AD1871 operates from a single 5 V power supply—with an optional digital interfacing capability of 3.3 V. It is housed in a 28-lead SSOP package and is characterized for operation over the temperature range -40°C to +105°C.

**FUNCTIONAL BLOCK DIAGRAM**

**REV. 0**

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# A 96 Khz Multibit Stereo Audio 24 Bit Adc Ad1871

**David J. Katz, Rick Gentile**



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