

## 24-bit 96KHz Stereo Audio dual-channel Analog-to-Digital Converter (ADC)

## 1 Main features:

- Conversion bits: 16/20/24Bit
- Sampling rate: 48/96KHz
- Power supply voltage: 5V
- Clock rate: 256/512/768 x Fs
- Signal to noise ratio: 106dB@-60dBFS

Dynamic range: 105dB@-60dBFS
Input

- ◆ THD+N: -103dB@-20dBFS I nput
- Serial data port: I<sup>2</sup>S protocol
- Serial interface: SPI compatible
- Encapsulation: SSOP28

## 2. Typical applications

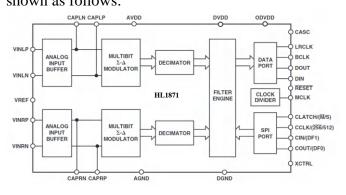
- 🔶 Professional audio
- Mixing console and mixing console
- 🔶 Digital audio recorder
- DVD-R, DAT, HDD
- Home theater systems, car audio systems

## 3 Product Description

This chip is a stereo audio ADC for digital audio applications requiring high performance analog-to-digital conversion.

#### 5 Compared with similar foreign products

The chip has two 24-bit conversion channels, each providing a dynamic range of 105dB. The audi o data interface of the chip supports I2S, left align, r ight align and other common interface formats. The chip also has an SPI-compatible walk-through confi guration port for easy configuration of chip paramet ers and functions. This chip is compatible with forei gn products AD1871 pins, which can be replaced. T he functional structure block diagram of the chip is shown as follows:



# 4 Product Highlights

- High precision, high SNR
- ♦ Flexible serial data port
- Supports multiple ADC Daisy chain connections
- Minimalist package design

	5 Compared with similar foreign products								
		precision	Sampling rate	Data port	Power dissipation	Dynamic range	THD+N	Encapsulation form	
	AD1871 (ADI)	24-bit	48/96KHz	seri al	290~335mW	105dB@-60dBFS	-103dB@-20dBFS	SSOP28	
F	HL1871	24-bit	48/96KHz	seri al	290~335mW	105dB@-60dBFS	-103dB@-20dBFS	SSOP28	