

16bit, Single-channel, 250kSPS, SAR ADC

FEATURES

- No Missing Resolution: 16bit
- Dynamic Range: 90dB
- SINAD: 90dB
- Analog Input Range: 0 to VREF (VREF up to VDD)
- External Reference
- VDD Single Power Supply: 2.7V to 5.5V, Logic Power Supply: 1.8V to VDD
- Serial Interface: Compatible with SPI, MICROWIRE, QSPI and DSP
- Power Dissipation: 6.5mW(5V@100kSPS), 15mW (5V@250kSPS)
- Standby Current: 200nA@5V

APPLICATIONS

- Battery-powered Equipment
- Medical Device
- Mobile Communication
- PDAs
- Data Acquisition
- Instrumentation
- Process Control

PRODUCT DESCRIPTION

The MS51572 is single-channel, 16bit SAR ADC and is powered by single power.

The MS51572 includes a low power dissipation, high-speed data sample and no missing code 16bit SAR ADC and an internal conversion clock.

The MS51572 uses general serial interface to receive the conversion result. The MS51572 also integrates track and hold circuit featured by low noise, wide bandwidth, short aperture delay. SPI interface can also connect several ADCs to a 3-wire bus in daisy chain.

The MS51572 is available in MSOP10 and DFN10 packages. The operating temperature is from -40°C to +125°C.

ORDER INFORMATION

Part Number	Package	Marking
MS51572M	MSOP10	MS51572M
*MS51572D	DFN10	MS51572D

*The package is not available temporarily. If necessary, please contact Hangzhou Ruimeng Sales Department Center.

BLOCK DIAGRAM

