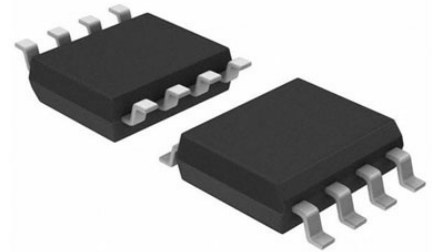


Analogue to Digital Converter, 16 bit, 200 kSPS, Single Ended, SPI, Single, 4.75 V

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	20WSO
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1609CSW#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC1609 is a 200ksps, serial sampling 16-bit A/D converter that draws only 65mW (typical) from a single 5V supply. This easy-to-use device includes a sample-and- hold, a precision reference, a switched capacitor successive approximation A/D and trimmed internal clock.

The input range is specified for bipolar inputs of  $\pm 10V$ ,  $\pm 5V$  and  $\pm 3.3V$  and unipolar inputs of 0V to 10V, 0V to 5V and 0V to 4V. Maximum DC specs include  $\pm 2LSB$  INL and 16-bit no missing codes overtemperature. It has a typical signal-to-noise ratio of 87dB.

The ADC has a high speed serial interface. The serial output data can be clocked out using either the internal serial shift clock or be clocked out by an external shift clock. A separate convert start input(R/C) and a data ready signal (BUSY) ease connections to FIFOs, DSPs and microprocessors.

## Features

Sample Rate: 200ksps

Input Ranges

Unipolar: 0V to 10V, 0V to 5V and 0V to 4V

Bipolar:  $\pm 10V$ ,  $\pm 5V$  and  $\pm 3.3V$

Guaranteed No Missing Codes

Serial I/O

Single 5V Supply

Power Dissipation: 65mW Typ

Power Down Mode: 50 $\mu$ W

SNR: 87dB Typ

Operates with Internal or External Reference

28-Pin SSOP and 20-Pin SSO Packages

Improved 2nd Source to ADS7809 and AD977A

## Application

Industrial Process Control

Multiplexed Data Acquisition Systems

High Speed Data Acquisition for PCs

Digital Signal Processing

## Related Products



### [LTC1860IMS8#PBF](#)

Analog Devices, Inc  
MSOP-8



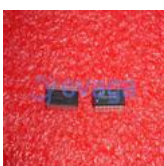
### [LT1171CQ](#)

Analog Devices, Inc  
TO-263



### [LTC2485IDD#PBF](#)

Analog Devices, Inc  
DFN-10



### [LTC2418IGN#PBF](#)

Analog Devices, Inc  
SSOP28



### [LTC2351IUH-14#PBF](#)

Analog Devices, Inc  
QFN-32



### [LTC2600CGN#PBF](#)

Analog Devices, Inc  
SSOP16



### [LTC2642CMS-16#PBF](#)

Analog Devices, Inc  
10MSOP



### [LTC1865AIMS#PBF](#)

Analog Devices, Inc  
MSOP-1