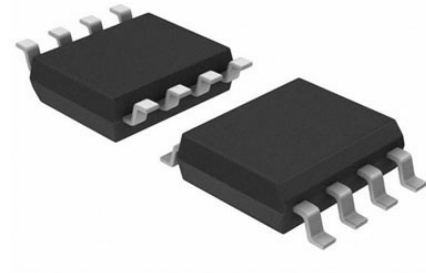


IC A/D CONV 14BIT SAMPLNG 28SOIC

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	28-SOI
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1419CSW#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC1419 is a 1 $\mu$ s, 800ksps, 14-bit sampling A/D converter that draws only 150mW from  $\pm$ 5V supplies. This easy-to-use device includes a high dynamic range sample-and-hold and a precision reference. Two digitally selectable power shutdown modes provide flexibility for low power systems.

The LTC1419 has a full-scale input range of  $\pm$ 2.5V. Outstanding AC performance includes 81.5dB S/(N + D) and 93dB THD with a 100kHz input; 80dB S/(N + D) and 86dB THD at the Nyquist input frequency of 400kHz.

The unique differential input sample-and-hold can acquire single-ended or differential input signals up to its 20MHz bandwidth. The 60dB common mode rejection allows users to eliminate ground loops and common mode noise by measuring signals differentially from the source.

The ADC has a  $\mu$ P compatible, 14-bit parallel output port. There is no pipeline delay in the conversion results. A separate convert start input and data ready signal (BUSY) ease connections to FIFOs, DSPs and microprocessors.

### Third Party Vendor Availability

ADI partners with third party vendors who assemble and test packaged products with RH Dice inside.

Part NumberDescriptionSCD or SMD#RAD141914-Bit, 800ksps Sampling ADC With ShutdownView

## Features

Sample Rate: 800ksps

Power Dissipation: 150mW

81.5dB S/(N + D) and 93dB THD

No Missing Codes

No Pipeline Delay

Nap and Sleep Shutdown Modes

Operates with 2.5V Internal 15ppm/°C Reference or External Reference

True Differential Inputs Reject Common Mode Noise

20MHz Full-Power Bandwidth Sampling

Bipolar Input Range:  $\pm 2.5V$

28-Pin SSOP and SO Packages

## Application

Telecommunications

Digital Signal Processing

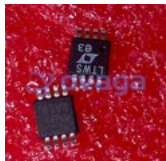
Multiplexed Data Acquisition Systems

High Speed Data Acquisition

Spectrum Analysis

Imaging Systems

## 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