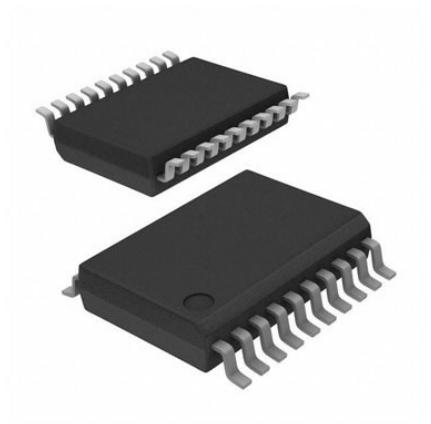


8-Channel Single ADC SAR 200ksps 12-bit Serial Automotive 16-Pin SSOP N Tube

Manufacturers	Analog Devices, Inc
Package/Case	SSOP-1
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1863IGN#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1863/LTC1867 are pin-compatible, 8-channel 12-/16-bit A/D converters with serial I/O, and an internal reference. The ADCs typically draw only 1.3mA from a single 5V supply.

The 8-channel input multiplexer can be configured for either single-ended or differential inputs and unipolar or bipolar conversions (or combinations thereof). The automatic nap and sleep modes benefit power sensitive applications.

The LTC1867's DC performance is outstanding with a ± 2 LSB INL specification and no missing codes over temperature. The signal-to-noise ratio (SNR) for the LTC1867 is typically 89dB, with the internal reference.

Housed in a compact, narrow 16-pin SSOP package, the LTC1863/LTC1867 can be used in space-sensitive as well as low-power applications.

Features

AEC-Q100 Qualified for Automotive Applications

Sample Rate: 200ksps

16-Bit No Missing Codes and ± 2 LSB Max INL

8-Channel Multiplexer with:

Single-Ended or Differential Inputs and

Unipolar or Bipolar Conversion Modes

SPI/MICROWIRE Serial I/O

Signal-to-Noise Ratio: 89dB

Single 5V Operation

On-Chip or External Reference

Low Power: 1.3mA at 200ksps, 0.76mA at 100ksps

Sleep Mode

Automatic Nap Mode Between Conversions

16-Pin Narrow SSOP Package

Application

Industrial Process Control

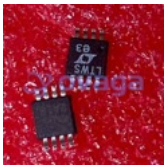
High Speed Data Acquisition

Battery Operated Systems

Multiplexed Data Acquisition Systems

Imaging Systems

Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



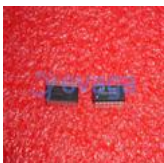
[LT1171CQ](#)

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](#)

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10MSOP



[LTC1865AIMS#PBF](#)

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