

Analogue to Digital Converter, Octal, 16 bit, 175 kSPS, Differential, Single Ended, SPI, Single

Manufacturers	Analog Devices, Inc
Package/Case	16SSO
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1867LIGN#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1863L/LTC1867L are pin compatible, 8-channel 12-/16-bit A/D converters with serial I/O and an internal reference.

The 8-channel input multiplexer can be configured for either single-ended or differential inputs and unipolar or bipolar conversions (or combinations thereof). The ADCs convert 0V to 2.5V unipolar inputs or $\pm 1.25V$ bipolar inputs. The ADCs typically draw only 750 μA from a single 2.7V supply. The automatic nap and sleep modes benefit power sensitive applications.

The LTC1867L's DC performance is outstanding with a $\pm 3LSB$ INL specification and 16-bit no missing codes over temperature.

Housed in a compact, narrow 16-pin SSOP package, the LTC1863L/LTC1867L can be used in space-sensitive as well as low power applications.

Features

Sample Rate: 175ksps

16-Bit No Missing Codes and $\pm 3\text{LSB}$ Max INL

8-Channel Multiplexer with:

Single Ended or Differential Inputs and

Unipolar or Bipolar Conversion Modes

SPI/MICROWIRE Serial I/O

2.7V Guaranteed Supply Voltage

Pin Compatible with LTC1863/LTC1867

True Differential Inputs

On-Chip or External Reference

Low Power: 750 μA at 175ksps, 300 μA at 50ksps

Sleep Mode

Automatic Nap Mode Between Conversions

16-Pin Narrow SSOP Package

Application

Industrial Process Control

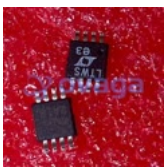
High Speed Data Acquisition

Battery Operated Systems

Multiplexed Data Acquisition Systems

Imaging Systems

Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



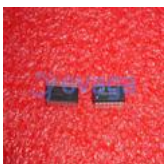
[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

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DFN-10



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Analog Devices, Inc
SSOP28



[LTC2351IUH-14#PBF](#)

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QFN-32



[LTC2600CGN#PBF](#)

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SSOP16



[LTC2642CMS-16#PBF](#)

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MSOP-1