

1-Channel Single ADC SAR 150ksps 16-bit Serial Automotive 8-Pin MSOP Tube

Manufacturers	Analog Devices, Inc
Package/Case	8-MSOP
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1864LAIMS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1864L/LTC1865L are 16-bit A/D converters that are offered in MSOP and SO-8 packages and operate on a single 3V supply. At 150ksps, the supply current is only 450 μ A. The supply current drops at lower speeds because the LTC1864L/LTC1865L automatically power down between conversions. These 16-bit switched capacitor successive approximation ADCs include sample-and-holds. The LTC1864L has a differential analog input with an external reference pin. The LTC1865L offers a software-selectable 2-channel MUX and an external reference pin on the MSOP version.

The 3-wire, serial I/O, small MSOP or SO-8 package and extremely high sample rate-to-power ratio make these ADCs ideal choices for compact, low power, high speed systems.

These ADCs can be used in ratiometric applications or with external references. The high impedance analog inputs and the ability to operate with reduced spans down to 1V full scale allow direct connection to signal sources in many applications, eliminating the need for external gain stages.

Features

16-Bit 150ksps ADCs in MSOP Package

Single 3V Supply

Low Supply Current: 450 μ A (Typ)

Auto Shutdown Reduces Supply Current to 10 μ A at 1ksps

True Differential Inputs

1-Channel (LTC1864L) or 2-Channel (LTC1865L) Versions

SPI/MICROWIRE™ Compatible Serial I/O

16-Bit Upgrade to 12-Bit LTC1285/LTC1288

Pin Compatible with 12-Bit LTC1860L/LTC1861L

No Minimum Data Transfer Rate

Application

High Speed Data Acquisition

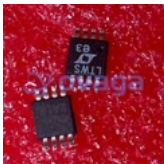
Portable or Compact Instrumentation

Low Power Battery-Operated Instrumentation

Isolated and/or Remote Data Acquisition



Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc
QFN-32



[LTC2600CGN#PBF](#)

Analog Devices, Inc
SSOP16



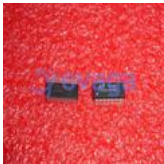
[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2642CMS-16#PBF](#)

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10MSOP



[LTC2418IGN#PBF](#)

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SSOP28



[LTC1865AIMS#PBF](#)

Analog Devices, Inc
MSOP-1