

2-Channel Single ADC SAR 250ksps 16-bit Serial Automotive 10-Pin MSOP Tube

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



Images are for reference only

Please submit RFQ for LTC1865AIMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1864/LTC1865 are 16-bit A/D converters that are offered in MSOP and SO-8 packages and operate on a single 5V supply. At 250ksps, the supply current is only 850 μ A. The supply current drops at lower speeds because the LTC1864/LTC1865 automatically power down between conversions. These 16-bit switched capacitor successive approximation ADCs include sample-and-holds. The LTC1864 has a differential analog input with an adjustable reference pin. The LTC1865 offers a software-selectable 2-channel MUX and an adjustable 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 250ksps ADCs in MSOP Package

Single 5V Supply

Low Supply Current: 850 μ A (Typ)

Auto Shutdown Reduces Supply Current to 2 μ A at 1ksps

True Differential Inputs

1-Channel (LTC1864) or 2-Channel (LTC1865) Versions

SPI/MICROWIRE™ Compatible Serial I/O

16-Bit Upgrade to 12-Bit LTC1286/LTC1298

Pin Compatible with 12-Bit LTC1860/LTC1861

Guaranteed Operation to +125°C (MSOP Package)

Application

High Speed Data Acquisition

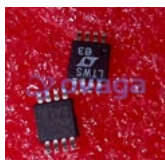
Portable or Compact Instrumentation

Low Power Battery-Operated Instrumentation

Isolated and/or Remote Data Acquisition



Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc
QFN-32



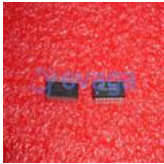
[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2418IGN#PBF](#)

Analog Devices, Inc
SSOP28



[LTC2600CGN#PBF](#)

Analog Devices, Inc
SSOP16



[LTC2642CMS-16#PBF](#)

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10MSOP



[LTC2203IUK](#)

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QFN48