

IC CONV A/D SAMPLING 12BIT 8SOIC

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1286IS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1286/LTC1298 are micropower, 12-bit, successive approximation sampling A/D converters. They typically draw only 250µA of supply current when converting and automatically power down to a typical supply current of 1nA whenever they are not performing conversions. They are packaged in 8-pin SO packages and operate on 5V to 9V supplies. These 12-bit, switched-capacitor, successive approximation ADCs include sample-and-holds. The LTC1286 has a single differential analog input. The LTC1298 offers a software selectable 2-channel MUX.

On-chip serial ports allow efficient data transfer to a wide range of microprocessors and microcontrollers over three wires. This, coupled with micropower consumption, makes remote location possible and facilitates transmitting data through isolation barriers.

These circuits can be used in ratiometric applications or with an external reference. The high impedance analog inputs and the ability to operate with reduced spans (to 1.5V full scale) allow direct connection to sensors and transducers in many applications, eliminating the need for gain stages.

Features

12-Bit Resolution

8-Pin SOIC Plastic Package

Low Cost

Low Supply Current: 250 μ A Typ.

Auto Shutdown to 1nA Typ.

Guaranteed $\pm 3/4$ LSB Max DNL

Single Supply 5V to 9V Operation

On-Chip Sample-and-Hold

60 μ s Conversion Time

Sampling Rates:

12.5 ksps (LTC1286)

11.1 ksps (LTC1298)

I/O Compatible with SPI, Microwire, etc.

Differential Inputs (LTC1286)

2-Channel MUX (LTC1298)

3V Versions Available: LTC1285/LTC1288

Application

Battery-Operated Systems

Remote Data Acquisition

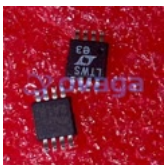
Battery Monitoring

Handheld Terminal Interface

Temperature Measurement

Isolated Data Acquisition

Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc
QFN-32



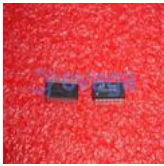
[LTC2600CGN#PBF](#)

Analog Devices, Inc
SSOP16



[LTC2642CMS-16#PBF](#)

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10MSOP



[LTC2418IGN#PBF](#)

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SSOP28



[LTC1865AIMS#PBF](#)

Analog Devices, Inc
MSOP-1