

LINEAR TECHNOLOGY LTC2400CS8#PBF Analog to Digital Converter, 24Bit, 7.5 SPS, Single, 2.7V, 5.5V, SOIC

Manufacturers	Analog Devices, Inc
Package/Case	SOIC8
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2400CS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2400 is a 2.7V to 5.5V micropower 24-bit converter with an integrated oscillator, 4ppm INL and 0.3ppm RMS noise. It uses delta-sigma technology and provides single cycle settling time for multiplexed applications. Through a single pin the LTC2400 can be configured for better than 110dB rejection at 50Hz or 60Hz $\pm 2\%$, or it can be driven by an external oscillator for a user defined rejection frequency in the range 1Hz to 120Hz. The internal oscillator requires no external frequency setting components.

The converter accepts any external reference voltage from 0.1V to VCC. With its extended input conversion range of -12.5% VREF to 112.5% VREF, the LTC2400 smoothly resolves the offset and overrange problems of preceding sensors or signal conditioning circuits.

The LTC2400 communicates through a flexible 3-wire digital interface which is compatible with SPI and MICROWIRE™ protocols.

Features

24-Bit ADC in SO-8 Package

4ppm INL, No Missing Codes

4ppm Full-Scale Error

Single Conversion Settling Time for Multiplexed Applications

0.5ppm Offset

0.3ppm Noise

Internal Oscillator—No External Components Required

110dB Min, 50Hz/60Hz Notch Filter

Reference Input Voltage: 0.1V to VCC

Live Zero—Extended Input Range Accommodates 12.5% Overrange and Underrange

Single Supply 2.7V to 5.5V Operation

Low Supply Current (200 μ A) and Auto Shutdown

Application

Weight Scales

Direct Temperature Measurement

Gas Analyzers

Strain-Gage Transducers

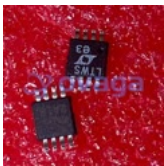
Instrumentation

Data Acquisition

Industrial Process Control

6-Digit DVMS

Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc
MSOP-8



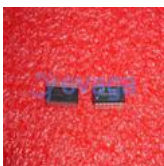
[LT1171CQ](#)

Analog Devices, Inc
TO-263



[LTC2485IDD#PBF](#)

Analog Devices, Inc
DFN-10



[LTC2418IGN#PBF](#)

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SSOP28



[LTC2351IUH-14#PBF](#)

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[LTC2600CGN#PBF](#)

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MSOP-1