

24-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation; Package: DFN; No of Pins: 10; Temperature Range: 0°C to +70°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-10
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2484CDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC2484 combines a 24-bit No Latency  $\Delta\Sigma^{\text{TM}}$  analog-to-digital converter with patented Easy Drive<sup>TM</sup> technology. The patented sampling scheme eliminates dynamic input current errors and the shortcomings of on-chip buffering through automatic cancellation of differential input current. This allows large external source impedances and input signals with rail-to-rail input range to be directly digitized while maintaining exceptional DC accuracy.

The LTC2484 includes an on-chip oscillator. The LTC2484 can be configured to reject line frequencies. 50Hz, 60Hz or simultaneous 50Hz/60Hz line frequency rejection can be selected as well as a 2 $\times$  speed-up mode.

The LTC2484 allows a wide common mode input range (0V to VCC) independent of the reference voltage. The reference can be as low as 100mV or can be tied directly to VCC. The LTC2484 includes an on-chip trimmed oscillator, eliminating the need for external crystals or oscillators. Absolute accuracy and low drift are automatically maintained through continuous, transparent, offset and full-scale calibration.

## Features

Easy Drive Technology Enables Rail-to-Rail Inputs with Zero Differential Input Current

Directly Digitizes High Impedance Sensors with Full Accuracy

600nVRMS Noise

GND to VCC Input/Reference Common Mode Range

Programmable 50Hz, 60Hz or Simultaneous 50Hz/60Hz Rejection Mode

2ppm INL, No Missing Codes

1ppm Offset and 15ppm Total Unadjusted Error

Selectable 2× Speed Mode (15Hz Using Internal Oscillator)

No Latency: Digital Filter Settles in a Single Cycle

Single Supply 2.7V to 5.5V Operation

Internal Oscillator

Available in a Tiny (3mm × 3mm) 10-Lead DFN Package

## Application

Direct Sensor Digitizer

Weight Scales

Direct Temperature Measurement

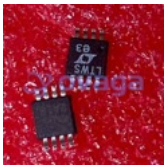
Strain Gauge Transducers

Instrumentation

Industrial Process Control

DVMs and Meters

## Related Products



### [LTC1860IMS8#PBF](#)

Analog Devices, Inc  
MSOP-8



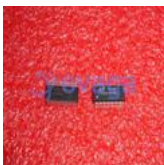
### [LT1171CQ](#)

Analog Devices, Inc  
TO-263



### [LTC2485IDD#PBF](#)

Analog Devices, Inc  
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### [LTC2418IGN#PBF](#)

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### [LTC2351IUH-14#PBF](#)

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### [LTC2642CMS-16#PBF](#)

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### [LTC1865AIMS#PBF](#)

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MSOP-1