

LTC2418IGN#PBF

Data Sheet

8-/16-Channel 24-Bit No Latency Delta Sigma ADCs; Package: SSOP; No of Pins: 28; Temperature Range: -40°C to +85°C

| Manufacturers | Analog Devices, Inc |
|---------------|---------------------|
| Package/Case | SSOP28 |
| Product Type | Data Conversion ICs |
| RoHS | Pb-free Halide free |
| Lifecvcle | |



Images are for reference only

Please submit RFQ for LTC2418IGN#PBF or <u>Email to us: sales@ovaga.com</u> We will contact you in 12 hours.

<u>RFQ</u>

General Description

The LTC2414/LTC2418 are 8-/16-channel (4-/8-differential) micropower 24-bit $\Delta\Sigma$ analog-to-digital converters. They operate from 2.7V to 5.5V and include an integrated oscillator, 2ppm INL and 0.2ppm RMS noise. They use delta-sigma technology and provide single cycle settling time for multiplexed applications. Through a single pin, the LTC2414/LTC2418 can be configured for better than 110dB differential mode rejection at 50Hz or 60Hz ±2%, or they can be driven by an external oscillator for a user-defined rejection frequency. The internal oscillator requires no external frequency setting components.

The LTC2414/LTC2418 accept any external differential reference voltage from 0.1V to VCC for flexible ratiometric and remote sensing measurement applications. They can be configured to take 4/8 differential channels or 8/16 single-ended channels. The full-scale bipolar input range is from -5VREF to 0.5VREF. The reference common mode voltage, VREFCM, and the input common mode voltage, VINCM, may be independently set within GND to VCC. The DC common mode input rejection is better than 140dB.

The LTC2414/LTC2418 communicate through a flexible 4-wire digital interface that is compatible with SPI and MICROWIRE protocols.

| Features | Application |
|--|----------------------------|
| 8-/16-Channel Single-Ended or 4-/8-Channel Differential Inputs (LTC2414/LTC2418) | Direct Sensor Digitizer |
| Low Supply Current (200µA, 4µA Autosleep) | Weight Scales |
| Differential Input and Differential Reference with GND to VCC Common Mode Range | Direct Temperature |
| 2ppm INL, No Missing Codes | Weasuement |
| 2.5ppm Full-Scale Error and 0.5ppm Offset | Gas Analyzers |
| 0 2mm Noise | Strain Gauge Transducers |
| No Latency: Divital Filter Settles in a Single Cycle. Each Conversion Is Accurate. Even After a New Channel is | Instrumentation |
| Selected | Data Acquisition |
| Single Supply 2.7V to 5.5V Operation | Industrial Process Control |
| Internal Oscillator-No External Components Required | |
| | |

110dB Min, 50Hz/60Hz Notch Filter



Related Products







LT1171CQ Analog Devices, Inc TO-263







DFN-10











LTC2351IUH-14#PBF

Analog Devices, Inc QFN-32

LTC2600CGN#PBF

Analog Devices, Inc SSOP16

LTC2642CMS-16#PBF

Analog Devices, Inc 10MSOP

LTC2203IUK

Analog Devices, Inc QFN48