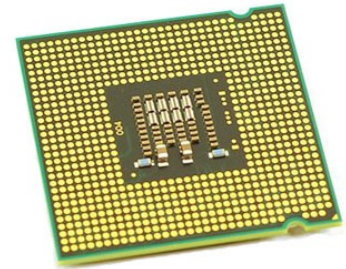


MEMS Accelerometer, Dual-Axis, Digital, X, Y,  $\pm 1.7g$ , 3 V, 5.25 V, LGA

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LGA-12
Product Type	Motion & Position Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADIS16003CCCZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADIS16003 is a low cost, low power, complete dual-axis accelerometer with an integrated serial peripheral interface (SPI). An integrated temperature sensor is also available on the SPI interface. The ADIS16003 measures acceleration with a full-scale range of  $\pm 1.7g$  (minimum), and it can measure both dynamic acceleration (vibration) and static acceleration (gravity).

The typical noise floor is  $110 \mu g/\sqrt{Hz}$ , allowing signals below  $1 mg$  (60 Hz bandwidth) to be resolved.

The bandwidth of the accelerometer is set with optional capacitors CX and CY at the XFILT and YFILT pins. Selection of the two analog input channels is controlled via the serial interface.

An externally driven self-test pin (ST) allows the user to verify the accelerometer functionality.

The ADIS16003 is available in a  $7.2 mm \times 7.2 mm \times 3.7 mm$ , 12-terminal LGA package.

## Features

Dual-axis accelerometer

SPI digital output interface

Internal temperature sensor

Highly integrated; minimal external components; bandwidth externally selectable

1mg resolution at 60 Hz

Externally controlled electrostatic self-test

3.0 V to 5.25 V single-supply operation

Low power: <2mA

3500 g shock survival

7.2 mm × 7.2 mm × 3.6 mm package

## Application

Industrial vibration/motion sensing

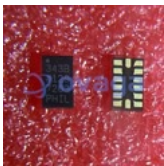
Platform stabilization

Dual-axis tilt sensing

Tracking, recording, and analysis devices

Alarms and security devices

## Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc  
LGA-14



[ADXL103CE](#)

Analog Devices, Inc  
CLCC-8



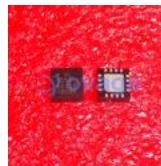
[ADXRS642BBGZ](#)

Analog Devices, Inc  
CBGA-32



[ADXL346ACCZ-RL7](#)

Analog Devices, Inc  
LGA16



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP16



[ADIS16488BMLZ](#)

Analog Devices, Inc  
MSM24



[ADXL357BEZ](#)

Analog Devices, Inc  
LCC-14



[ADXL345BCCZ-RL7](#)

Analog Devices, Inc  
LGA-14