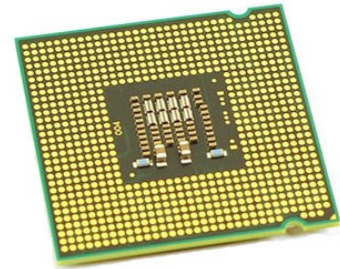


Inclinometer Digital Output 3.3V 16-Pin LGA Tray

Manufacturers	Analog Devices, Inc
Package/Case	LGA-16
Product Type	Motion & Position Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADIS16203CCCZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADIS16203 is a complete incline-angle measurement system in a single compact package enabled by the Analog Devices, Inc., iSensor™ integration. By enhancing the Analog Devices iMEMS® sensor technology with an embedded signal processing solution, the ADIS16203 provides factory-calibrated, sensor-to-digital incline-angle data in a convenient format that can be accessed using a serial peripheral interface (SPI). The SPI interface provides access to multiple measurements: 360° linear inclination angles, ±180° linear incline angles, temperature, power supply, and one auxiliary analog input. Easy access to calibrated digital sensor data provides developers with a system-ready device, reducing development time, cost, and program risk.

Unique characteristics of the end system are accommodated easily through several built-in features, such as a single-command offset calibration, along with convenient sample rate and band-width control.

The ADIS16203 offers the following embedded features that eliminate the need for external circuitry and provide a simplified system interface:

Configurable alarm function

Auxiliary 12-bit analog-to-digital converter (ADC)

Auxiliary 12-bit digital-to-analog converter (DAC)

Configurable digital I/O port

Digital self-test function

The ADIS16203 offers two power management features for managing system-level power dissipation: low power mode and a configurable shutdown feature.

The ADIS16203 is available in a 9.2 mm × 9.2 mm × 3.9 mm laminate-based land grid array (LGA) package with a temperature range of -40°C to +125°C.

Features

0° to 360° Inclinometer

14-bit digital inclination outputs

Linear output, 0.025° resolution

12-bit digital temperature sensor output

Digitally controlled bias calibration

Digitally controlled sample rate

Digitally controlled filtering

Digitally controlled direction/orientation

Dual alarm settings with rate/threshold limits

Auxiliary digital I/O

Digitally activated self test

Digitally activated low power mode

SPI®-compatible serial interface

Auxiliary 12-bit ADC input and DAC output

Single-supply operation: 3.0V to 3.6V

3500 g powered shock survivability

Application

Tilt sensing, inclinometers

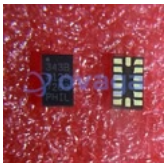
Platform control, stabilization, and leveling

Motion/position measurement

Monitor/alarm devices (security, medical, safety)

Robotics

Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc
LGA-14



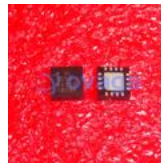
[ADXL103CE](#)

Analog Devices, Inc
CLCC-8



[ADXRS642BBGZ](#)

Analog Devices, Inc
CBGA-32



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc
LFCSP16



[ADIS16488BMLZ](#)

Analog Devices, Inc
MSM24



[ADXL357BEZ](#)

Analog Devices, Inc
LCC-14



[ADXL346ACCZ-RL7](#)

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LGA16



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LGA-14