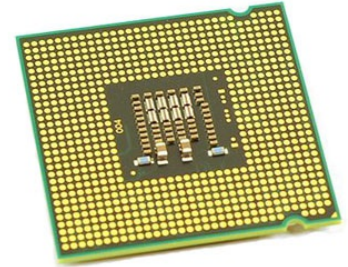


MEMS Accelerometer, 3-Axis, Digital, X, Y, Z, $\pm 1g \pm 2g \pm 4g \pm 8g$, 2 V, 3.6 V, LGA

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 ADXL350BCEZ-RL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The high performance ADXL350 is a small, thin, low power, 3-axis accelerometer with high resolution (13-bit) and selectable measurement ranges up to $\pm 8g$. The ADXL350 offers industry-leading temperature performance with guaranteed min/max specification for offset over temperature. Digital output data is formatted as 16-bit two's complement and is accessible through either a SPI (3- or 4-wire) or I2C digital interface.

The ADXL350 is well suited for high performance portable applications. It measures the static acceleration of gravity in tilt sensing applications, as well as dynamic acceleration resulting from motion or shock. Its high resolution (2 mg/LSB) enables measurement of inclination changes of less than 1.0° .

Several special sensing functions are provided. Activity and inactivity sensing detect the presence or lack of motion and if the acceleration on any axis exceeds a user-set level. Tap sensing detects single and double taps. Free-fall sensing detects if the device is falling. These functions can be mapped to one of two interrupt output pins.

Low power modes enable intelligent motion-based power management with threshold sensing and active acceleration measurement at extremely low power dissipation.

The ADXL350 is supplied in a small, thin, $3\text{ mm} \times 4\text{ mm} \times 1.2\text{ mm}$, 16-lead cavity laminate package.

Features

Excellent Zero-g bias accuracy and stability with minimum/maximum specifications

Ultralow power: as low as 45 μA in measurement mode and 0.1 μA in standby mode at >

Power consumption scales automatically with bandwidth

User-selectable resolution- Fixed 10-bit resolution- Full resolution, where resolution increases with g range, up to 13-bit resolution at ± 8 g (maintains 2 mg/LSB scale factor in all g ranges)

Embedded, 32-level FIFO buffer minimizes host processor load

Tap/double tap detection and free-fall detection

Activity/inactivity monitoring

Supply voltage range: 2.0 V to 3.6 V

I/O voltage range: 1.7 V to VS

SPI (3- and 4-wire) and I2C digital interfaces

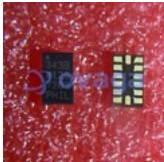
See datasheet for additional features

Application

Portable Consumer Devices

High performance medical and industrial applications

Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc
LGA-14



[ADXL103CE](#)

Analog Devices, Inc
CLCC-8



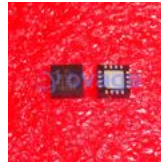
[ADXRS642BBGZ](#)

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