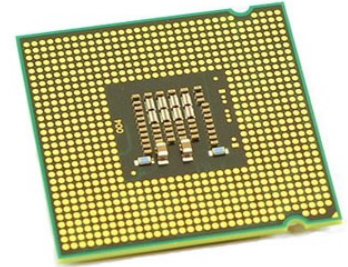


Accelerometers - Board Mount Digital Output Three-Axis Accel 4K RL

Manufacturers	Analog Devices, Inc
Package/Case	LGA14
Product Type	Motion & Position Sensors
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADXL345BCCZ-RL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADXL345 is a small, thin, low power, 3-axis accelerometer with high resolution (13-bit) measurement at up to $\pm 16g$. 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 ADXL345 is well suited for mobile device 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 (4 mg/LSB) enables measurement of inclination changes 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. An integrated, patent pending 32-level first in, first out (FIFO) buffer can be used to store data to minimize host processor intervention.

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

The ADXL345 is supplied in a small, thin, 3 mm \times 5 mm \times 1 mm, 14-lead, plastic package.

ADXL345-EP Supports defense and aerospace applications (AQEC)

Features

Ultralow power: as low as 23 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 $\pm 16\text{ g}$ (maintaining 4 mg/LSB scale factor in all g ranges)

See data sheet for additional features.

ADXL345-EP supports defense and aerospace applications (AQEC standard)

Download(pdf)

Extended industrial temperature range: (-55°C to $+105^{\circ}\text{C}$)

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

V62/12657 DSCC Drawing Number

Application

ADXL345-EP Supports defense and aerospace applications (AQEC)

Handsets

Medical instrumentation

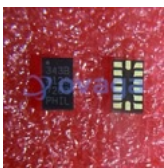
Gaming and pointing devices

Industrial instrumentation

Personal navigation devices

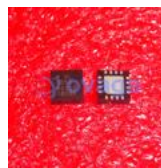
Hard disk drive (HDD) protection

Related Products



[ADXL343BCCZ](#)

Analog Devices, Inc
LGA-14



[ADXL335BCPZ-RL7](#)

Analog Devices, Inc
LFCSP16



[ADXL103CE](#)

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CLCC-8



[ADIS16488BMLZ](#)

Analog Devices, Inc
MSM24



[ADXRS642BBGZ](#)

Analog Devices, Inc
CBGA-32



[ADXL357BEZ](#)

Analog Devices, Inc
LCC-14



[ADXL346ACCZ-RL7](#)

Analog Devices, Inc

LGA16



[ADXL345BCCZ-RL7](#)

Analog Devices, Inc

LGA-14