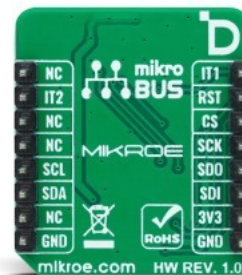


Accel 29 Click



PID: MIKROE-5671

Accel 29 Click is a compact add-on board that contains an acceleration sensor. This board features the [ADXL314](#), a three-axis $\pm 200g$ accelerometer from [Analog Devices](#). The ADXL314 offers 16-bit digital output data with a configurable host interface that supports SPI and I2C serial communication. An integrated memory management system with a 32-level FIFO buffer can store data to minimize host processor activity and lower overall system power consumption. Low power modes enable intelligent motion-based power management with threshold sensing and active acceleration measurement at low power dissipation. This Click board™ is suitable for multiple applications such as motion-activated functions, shock detection, high-force event detection, and more.

Accel 29 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Motion
Applications	Can be used for multiple applications such as motion-activated functions, shock detection, high-force event detection, and more
On-board modules	ADXL314 - three-axis accelerometer from Analog Devices
Key Features	±200g measurement range, low power consumption, user-selectable bandwidth, fixed 13-bit output resolution, selectable interface, embedded memory management system with FIFO technology, interrupt, and more
Interface	I2C,SPI
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[Accel 29 click example on Libstock](#)

[ADXL314 datasheet](#)

[Accel 29 click 2D and 3D files](#)

[Accel 29 click schematic](#)

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