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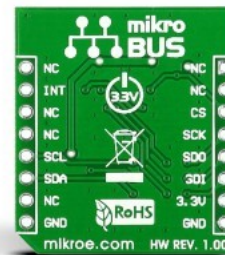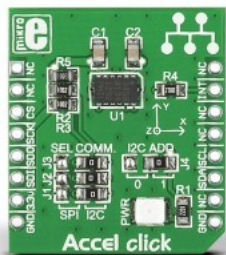www.mikroe.com

Accel Click

PID: MIKROE-1194

Accel Click is a compact add-on board that contains an acceleration sensor. This board features the ADXL345, an ultra-low power, 3-axis accelerometer with high resolution (13-bit) measurements from Analog Devices. It allows selectable full-scale acceleration measurements in ranges of ±2g, ±4g, ±8g, or ±16g in three axes with a configurable host interface that supports both SPI and I2C serial communication. Several special sensing functions are also provided (presence or lack of motion detection, tap, and free-ball sense) alongside a low-power mode that enables intelligent motion-based power management. This Click board™ is suitable for various applications such as motion-activated functions, measurement of inclination changes, and tilt-sensing applications.

Accel 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.

Specifications

Type	Motion
Applications	Can be used for various applications such as motion-activated functions, measurement of inclination changes, and tilt-sensing applications
On-board modules	ADXL345 - complete 3-axis acceleration measurement system from Analog Devices
Key Features	Low power consumption, high-performance, high resolution, several sensing function, embedded memory management system with FIFO technology, interrupt, and more
Interface	I2C,SPI
ClickID	Manifest,No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[Accel click example on Libstock](#)

[Accel Click User Manual](#)

[ADXL345 datasheet](#)

[Accel click schematic](#)

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