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Accel 10 Click

PID: MIKROE-4112

Accel 10 Click features an ultra-low power triaxial "femto" accelerometer sensor with embedded intelligence, labeled as the LIS2DW12TR. This Click board™ allows linear motion and gravitational force measurements in ranges of ±2 g, ±4 g, ±8, and ±16 g in three perpendicular axes. This smart sensor allows the Accel 10 Click to detect many different events, including tap, double tap, free-fall detection, and more, making it well suited for using it in handheld or wearable devices. It features an onboard data processing, offering the acceleration data directly, over the standard I2C or SPI interface.

Accel 10 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.

The sensor can use any of its two interrupt pins to report a detected event.

Specifications

Type	Acceleration,Motion
Applications	Accel 10 click can be used for a rapid development and testing of various applications based on step counting, fitness applications, profile switching and display ON/OFF applications, angle measurement applications, and similar applications.
On-board modules	LIS2DW12TR, a 14-bit triaxial acceleration sensor with ultra-low power consumption, from STMicroelectronics.
Key Features	tap, double tap and free-fall detection, ultra-low power consumption, thermal readings
Interface	GPIO,I2C,SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

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Downloads

[Accel 10 click 2D and 3D files](#)

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[LIS2DW12TR datasheet](#)

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