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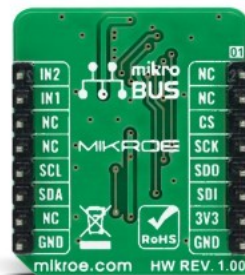www.mikroe.com

Accel 19 Click

PID: MIKROE-4949

Accel 19 Click is a compact add-on board that contains an acceleration sensor. This board features the LIS2DTW12, an ultra-low-power high-performance three-axis accelerometer from STMicroelectronics. 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. Alongside an embedded 0.8°C accuracy temperature sensor with ODRs ranging from 50 to 1.6Hz and resolution from 8 to 12 bits, it has a dedicated internal engine to process motion and acceleration detection. This Click board™ is suitable for various applications such as motion-activated functions and user interfaces, tap-double-tap recognition, free-fall detection, tracking, and many more.

Accel 19 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.

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Specifications

Type	Motion
Applications	Can be used for various applications such as motion-activated functions and user interfaces, tap-double-tap recognition, free-fall detection, tracking, and many more
On-board modules	LIS2DTW12 - highly reliable digital triaxial acceleration and temperature sensor from STMicroelectronics
Key Features	Low power consumption, high performance and resolution, high reliability, dedicated internal engine to process motion and acceleration detection, integrated interrupt features, selectable serial interface, and more
Interface	I2C,SPI
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

LIS2DTW12 datasheet

Accel 19 click schematic

Accel 19 click 2D and 3D files

Accel 19 click example on Libstock