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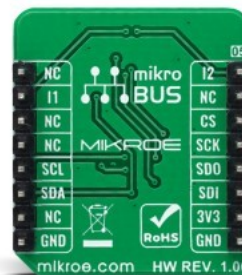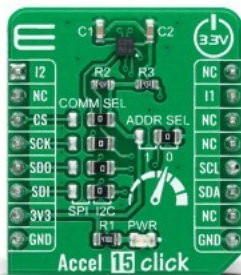www.mikroe.com

Accel 15 Click

PID: MIKROE-4501

Accel 15 Click is a compact add-on board that contains a longevity acceleration sensor. This board features the BMA490L, a high-performance 16-bit digital triaxial acceleration sensor with extended availability of up to ten years from Bosch Sensortec. It allows selectable full-scale acceleration measurements in ranges of ±2g, ±4g, ±8g, and ±16g in three axes with a configurable host interface that supports both I2C and SPI serial communication and with intelligent on-chip motion-triggered interrupt features. Intelligent signal processing and evaluation in the accelerometer ASIC enables advanced gesture recognition for numerous industrial IoT applications where low power consumption is vital. This Click board™ is suitable for home appliances, power tools, and other industrial products whose lifetime is essential.

Accel 15 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 home appliances, power tools, and other industrial products whose lifetime is essential.
On-board modules	BMA490L - high-performance 16-bit digital triaxial longevity acceleration sensor with extended availability of up to ten years from Bosch Sensortech
Key Features	Ultra-low power consumption, high performance, programmable functionality, on-chip interrupt features, adjustable bandwidth, optimized for industrial applications, and more
Interface	I2C,SPI
ClickID	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 15 click 2D and 3D files

BMA490L datasheet

Accel 15 click schematic

Accel 15 click example on Libstock