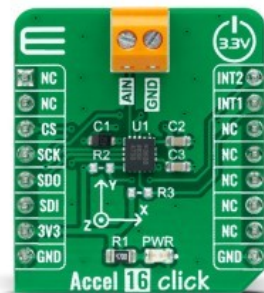# Accel 16 Click

PID: MIKROE-4876

Accel 16 Click is a compact add-on board that contains an acceleration sensor. This board features the ADXL363, a micropower three-sensor combination including acceleration and temperature from Analog Devices. This device combines a 3-axis MEMS accelerometer, a temperature sensor, and an analog-to-digital converter (ADC) input for synchronized conversions of external signals. It allows selectable full-scale acceleration measurements in ranges of ±2g, ±4g, and ±8g (with a resolution of 1mg/LSB on the ±2g range), and communicates via SPI serial interface providing 12-bit output resolution for all three sensors. This Click board™ is suitable for various applications such as vibration and condition monitoring, test and measurements, predictive maintenance, and more.

Accel 16 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 vibration and condition monitoring, test and measurements, predictive maintenance, and more
On-board modules	ADXL363 - micropower complete sensor suite consisting of an accelerometer, an ADC for synchronous conversion of input from a third sensor, and a temperature sensor from Analog Devices
Key Features	Accelerometer, temperature sensor, and provision for third analog sensor input, low power consumption, all sensors sampled synchronously, 12-bit resolution for all sensors, built-in features for motion-based system level power savings, and more
Interface	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 16 click 2D and 3D files

Accel 16 click schematic

ADXL363 datasheet

Accel 16 click example on Libstock