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Accel 20 Click

PID: MIKROE-4888

Accel 20 Click is a compact add-on board that contains an acceleration sensor. This board features the KX134-1211, a digital output 3-axis accelerometer optimized for machine condition monitoring from Rohm Semiconductor. It allows selectable full-scale acceleration measurements in ranges of ±8g, ±16g, ±32g, or ±64g in three axes with a configurable host interface that supports both SPI and I2C serial communication. It also features an Advanced Data Path (ADP) technology which allows noise filtering and sensor signal processing, usually carried out by the MCU, to be performed by the accelerometer. They contribute to reducing MCU load and power consumption together with improved application performance. This Click board™ is suitable for various applications such as vibration and condition monitoring, test and measurements, predictive maintenance, and more.

Accel 20 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 vibration and condition monitoring, test and measurements, predictive maintenance, and more
On-board modules	KX134-1211 - highly reliable digital triaxial acceleration sensor with a feature set optimized for machine condition monitoring from Rohm Semiconductor
Key Features	Low power consumption, high performance and resolution, high reliability, user-configurable 3-stage Advanced Data Path (ADP), integrated interrupt features, Excellent temperature performance with high shock survivability, selectable serial interface, 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 20 click example on Libstock](#)

[KX134-1211 datasheet](#)

[Accel 20 click schematic](#)

[Accel 20 click 2D and 3D files](#)