

# Accel 17 Click



PID: MIKROE-4855

**Accel 17 Click** is a compact add-on board that contains an acceleration sensor. This board features the [MXC62320MP](#), a low-power digital output dual-axis accelerometer fabricated on a standard, submicron CMOS process from [MEMSIC](#). The MXC62320MP can measure both dynamic acceleration (e.g., vibration) and static acceleration (e.g., gravity), with full-scale acceleration measurements, a range of  $\pm 2g$ , and a configurable host interface that supports I2C serial communication with 400kHz Fast Mode operation. This Click board™ is suitable for various applications such as vibration and condition monitoring, test and measurements, predictive maintenance, and more.

Accel 17 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.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
ISO 14001: 2015 certification of environmental management system.  
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## 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 | MXC62320MP - low-power digital output dual-axis accelerometer fabricated on a standard, submicron CMOS process from MEMSIC                                                                               |
| Key Features     | Low power consumption, $\pm 2$ g dual axis accelerometer, embedded power up/down and self-test function, integrated temperature sensor and mixed signal processing, resolution better than 1mg, and more |
| Interface        | I2C                                                                                                                                                                                                      |
| Compatibility    | mikroBUS                                                                                                                                                                                                 |
| Click board size | S (28.6 x 25.4 mm)                                                                                                                                                                                       |
| Input Voltage    | 3.3V or 5V                                                                                                                                                                                               |

## Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click Boards™](#)

## Downloads

[MXC62320MP datasheet](#)
[Accel 17 click 2D and 3D files](#)
[Accel 17 click schematic](#)
[Accel 17 click example on Libstock](#)

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