

Accel 30 Click



PID: MIKROE-5550

Accel 30 Click is a compact add-on board that contains an acceleration sensor. This board features the MC3635, an ultra-low power, low-noise, integrated digital output 3-axis accelerometer from MEMSIC. The MC3635 allows selectable full-scale acceleration measurements in ranges of $\pm 2g$, $\pm 4g$, $\pm 8g$, $\pm 12g$, or $\pm 16g$ in three axes with a configurable host interface that supports both SPI and I2C serial communication. It also supports high-resolution, low-power operating modes and interrupt feature for various events allowing maximum flexibility to meet multiple use case needs. This Click board™ is suitable for consumer product motion sensing, user interface control, gaming, electronic compass tilt compensation, and more.

Accel 30 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 | Acceleration, Motion |
| Applications | Can be used for consumer product motion sensing, user interface control, gaming, electronic compass tilt compensation, and more |
| On-board modules | MC3635 - digital triaxial acceleration sensor from MEMSIC |
| Key Features | Low power consumption, low noise, selectable full-scale acceleration, configurable host interface, high resolution, various operating modes, interrupt, programmable sample rate, 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

[Accel 30 click example on Libstock](#)

[Accel 30 click 2D and 3D files](#)

[MC3635 datasheet](#)

[Accel 30 click schematic](#)

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