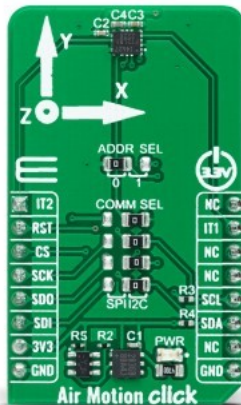


## Air Motion Click



PID: MIKROE-5524

**Air Motion Click** is a compact add-on board that contains a 6-axis inertial measurement unit. This board features [TDK InvenSense's ICM-40627](#), a 6-axis MEMS MotionTracking™ device that combines a 3-axis user-selectable gyroscope accelerometer. The ICM-40627 comes bundled with TDK's Air Motion Library that enables precise mouse pointing, swipe, roll and other motion gestures, communicating with the host MCU via a configurable interface (I2C and SPI serial communication). It also features a 2KB FIFO and two programmable interrupts with ultra-low-power Wake-on-Motion support to minimize system power consumption. This Click board™ represents an excellent choice for gesture-based handheld applications, like pedometer, tilt and tap detection, and more.

Air Motion 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 gesture-based handheld applications, like pedometer, tilt and tap detection, and more
On-board modules	ICM-40627 - 6-axis MotionTracking™ device from TDK InvenSense
Key Features	Combines a 3-axis gyroscope and accelerometer, integrated TDK's Air Motion Library, configurable communication interface, user-programmable gyro/accel scale range, programmable interrupts, APEX motion functions, and more
Interface	I2C,SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[Air Motion click example on Libstock](#)

[Air Motion click 2D and 3D files](#)

[ICM-40627 datasheet](#)

[Air Motion click schematic](#)

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