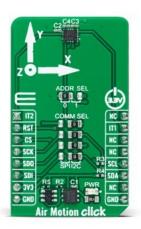MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

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.

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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