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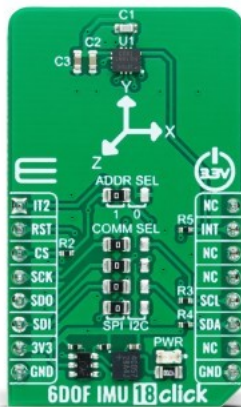www.mikroe.com

6DOF IMU 18 Click

PID: MIKROE-5591

6DOF IMU 18 Click is a compact add-on board with a 6-axis inertial measurement unit. This board features the ICM-42605, a high-performance 6-axis MotionTracking™ IMU from TDK InvenSense. It combines a 3-axis gyroscope and a 3-axis accelerometer featuring a 2Kb-byte FIFO that can lower the traffic on the serial bus interface (SPI or I2C). It reduces power consumption by allowing the system processor to burst read sensor data and then go into a low-power mode. Thanks to the industry-leading feature, APEX Motion Processing engine, this Click board™ represents an excellent choice for applications like tilt sensing, navigation, orientation measurement, platform stabilization, robotics, and many more.

6DOF IMU 18 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.

Specifications

Type	Motion
Applications	Can be used for applications like tilt sensing, navigation, orientation measurement, platform stabilization, robotics, and many more
On-board modules	ICM-42605 - 6-axis MotionTracking™ IMU from TDK InvenSense
Key Features	Low power consumption, digital-output X-, Y-, and Z-axis angular rate sensors with programmable full-scale range, user-programmable interrupts, 20.000g shock tolerant, and more
Interface	I2C,SPI
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[6DOF IMU 18 click example on Libstock](#)

[ICM-42605 datasheet](#)

[6DOF IMU 18 click 2D and 3D files](#)

[6DOF IMU 18 click schematic](#)