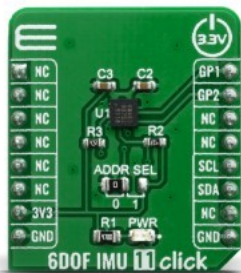


6DOF IMU 11 Click



PID: MIKROE-3869

The **6DOF IMU 11 click** is a Click board™ based on the KMX63, a 6 Degrees-of-Freedom inertial sensor system on a single, silicon chip, which is designed to strike a balance between current consumption and noise performance with excellent bias stability over temperature. The KMX63 sensor consists of a tri-axial magnetometer plus a triaxial accelerometer coupled with an ASIC.

The 6DOF IMU 11 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,Magnetic,Motion |
| Applications | A magnetometer accelerometer can be used to enable a variety of simultaneous features for Machine health, screen orientation, navigation, faming, automatic sleep mode |
| On-board modules | KMX63, a 6 Degrees-of-Freedom inertial sensor system from Kionix |
| Key Features | Programmable $\pm 8g/\pm 16g/\pm 32g/\pm 64g$ full scale range accelerometer range and a $\pm 1200 \mu T$ range for the magnetometer |
| Interface | GPIO,I2C |
| 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

[KMX63 datasheet](#)

[6DOF IMU 11 click example on Libstock](#)

[6DOF IMU 11 click 2D and 3D files](#)

[6DOF IMU 11 click schematic](#)

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