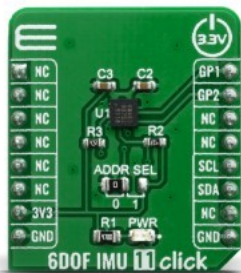# 6DOF IMU 11 Click

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.

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 ±8g/±16g/±32g/±64g full scale range accelerometer range and a +/-1200 µT 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](#)