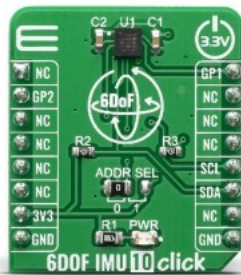


6DOF IMU 10 Click



PID: MIKROE-3934

6DOF IMU 10 Click is a 6 Degrees-of-Freedom inertial sensor module, that features KMX62 sensor which consists of tri-axial magnetometer (range $\pm 2g$ / $\pm 4g$ / $\pm 8g$ / $\pm 16g$) plus a triaxial accelerometer ($\pm 1200\mu T$). The accelerometer and magnetometer data can be accumulated in an internal 384-byte FIFO buffer and transmitted to the application Processor. This Click board™ can be used for applications which require movement and orientation features, navigation, such as screen orientation, machine/vibration analysis, game playing.

The 6DOF IMU 10 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 accelerometer can be used to enable a variety of simultaneous features for Machine health, screen orientation, navigation.
On-board modules	KMX62-1031, a 6 Degrees-of-Freedom inertial sensor from Kionix
Key Features	16-bit digital output, Internal 384-byte FIFO buffer
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

[KMX62-1031 datasheet](#)

[6DOF IMU 10 click 2D and 3D files](#)

[6DOF IMU 10 click schematic](#)

[6DOF IMU 10 click example on Libstock](#)

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).