

Smart DOF 3 Click



PID: MIKROE-5734

Smart DOF 3 Click is a compact add-on board with a highly advanced integrated system-in-package (SIP) accelerometer and gyroscope sensors. This board features the [ISM3301S](#), an iNEMO inertial module from [STMicroelectronics](#). The inertial module consists of an always-on 3-axis accelerometer and 3-axis gyroscope with ISPU (intelligent sensor processing unit). In addition, the ISM3301S can be configured to allow connection with external I2C sensors. This Click board™ makes the perfect solution for the development of industrial robots, asset tracking, anomaly detection and condition monitoring, event detection in alarms and smart homes, and more.

Smart DOF 3 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,Gyroscope,Motion
Applications	Can be used for the development of industrial robots, asset tracking, anomaly detection and condition monitoring, event detection in alarms and smart homes, and more
On-board modules	ISM330IS - iNEMO inertial module from STMicroelectronics
Key Features	3-axis accelerometer, 3-axis gyroscope, temperature sensor, up to four external sensors over the master I2C interface, low power consumption, intelligent sensor processor unit (ISPU), sensor hub, low noise, and more
Interface	I2C,SPI
ClickID	Yes
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

[Smart DOF 3 click example on Libstock](#)

[Smart DOF 3 click 2D and 3D files](#)

[ISM330IS datasheet](#)

[Smart DOF 3 click schematic](#)

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