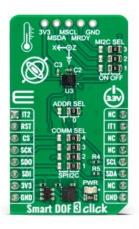
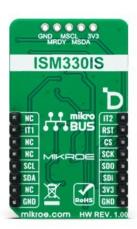


MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918 Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com www.mikroe.com

Smart DOF 3 Click





PID: MIKROE-5734

Smart DOF 3 Click is a compact add-on board with a highly advanced integrated system-inpackage (SIP) accelerometer and gyroscope sensors. This board features the ISM330IS, 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 ISM330IS 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 <u>Click board™</u> 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.





health and safety management system.



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Specifications

Туре	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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