

6DOF IMU 15 Click



PID: MIKROE-4330

6DOF IMU 15 Click is a compact add-on board that contains a 6-axis MEMS motion tracking device combining a 3-axis gyroscope and a 3-axis accelerometer. This board features the ASM330LHH, automotive 6-axis MEMS motion tracking device, from STMicroelectronics. It has a configurable host interface that supports both I2C and SPI serial communication, features a 3 kB FIFO and a programmable interrupt with ultra low-power event-detection support to minimize system power consumption. This Click board™ is an excellent choice for applications like gesture recognition, activity classification, dead reckoning, pedometers, Telematics, eTolling, anti-theft systems, and more.

6DOF IMU 15 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	Gesture recognition, activity classification, dead reckoning, pedometers, Telematics, eTolling, anti-theft systems, and more.
On-board modules	6DOF IMU 15 Click is based on the ASM330LHH, a system-in-package featuring a high-performance 3-axis digital accelerometer and 3-axis digital gyroscope from STMicroelectronics
Key Features	Both I2C and SPI serial communication, features a 3 kB FIFO and a programmable interrupt with ultra low-power event-detection support to minimize system power consumption power consumption, and more.
Interface	I2C,SPI
ClickID	No
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

[6DOF IMU 15 click 2D and 3D files](#)

[ASM330LHH datasheet](#)

[6DOF IMU 15 click example on Libstock](#)

[6DOF IMU 15 click schematic](#)

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