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9DOF 2 Click

PID: MIKROE-4128

9DOF 2 Click is a compact add-on board for applications which require lowest power motion tracking and magnetometer functionality. This board features the ICM-20948 a 9-axis MotionTracking™ sensor from TDK Invensense, which consist of two sensors combined into one package for universal 9DOF solution. In this package we have 3-axis gyroscope, a 3-axis accelerometer, 3-axis magnetometer, combined with Digital Motion Processor™ (DMP) and run-time calibration firmware. All this features makes 9DOF 2 Click excellent choice for manufacturers looking for a product to eliminate the costly and complex selection, qualification, and system level integration of discrete devices, guaranteeing optimal motion performance for consumers. Its also ideally suited for wearable sensors and IoT applications needed low power motion tracking device expandable with additional I2C sensors.

9DOF 2 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.
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Specifications

Type	Gyroscope,Magnetic,Motion
Applications	Can be used for Smartphones and Tablets, wearable sensors and IoT Applications.
On-board modules	9DOF 2 Click uses the ICM-20948 IC, the world's lowest power 9-axis MotionTracking device, from TDK Invensense.
Key Features	Mobile phones, tablet PCs, GPS systems, Smart watches, Sport and fitness devices, and many more.
Interface	SPI
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

9DOF 2 click example on Libstock

TXB0108 datasheet

ICM-20948 datasheet

9DOF 2 click 2D and 3D files

9DOF 2 click schematic

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