

## Gyro 9 Click



PID: MIKROE-5881

**Gyro 9 Click** is a compact add-on board that contains a high-performance gyroscope. This board features the A3G4250D, a MEMS motion sensor from STMicroelectronics. It is a low-power 3-axes digital output gyroscope that provides unprecedented stability at zero rate level and sensitivity over temperature and time and is equipped with an embedded temperature sensor. The gyroscope has a 16-bit rate value data output with an 8-bit compensation temperature data output. This Click board™ makes the perfect solution for the development of in-dash car navigation, telematics, e-tolling, motion control with MMI (man-machine interface), and more.

Gyro 9 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets Gyro 9 Click apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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	Motion
Applications	Can be used for the development of in-dash car navigation, telematics, e-tolling, motion control with MMI (man-machine interface), and more
On-board modules	A3G4250D - MEMS motion sensor from STMicroelectronics
Key Features	Integrates low and high-pass filters with user-selectable bandwidth, ultra-stable over temperature and time, embedded power-down and sleep mode, embedded temperature sensor, embedded FIFO, high shock survivability, and more
Interface	I2C,SPI
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

## Downloads

[A3G4250D datasheet](#)

[Gyro 9 click example on Libstock](#)

[Gyro 9 click 2D and 3D files](#)

[Gyro 9 click schematic](#)

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