

## Gyro 8 Click



PID: MIKROE-5471

**Gyro 8 Click** is a compact add-on board that contains a high-performance gyroscope. This board features Murata's SCR2100-D08, a high-performance single-axis angular rate sensor (gyroscope). Based on Murata's proven capacitive 3D-MEMS technology, the SCR2100-D08 is characterized by high stability and reliability, providing immensely stable output over a wide range of temperatures, humidity, and vibration. This high-resolution gyroscope supports  $\pm 125^\circ/s$  X-axis angular rate measurement range, extensive self-diagnostic features, an SPI serial interface, and low power consumption. This Click board™ is suitable for applications demanding high stability with challenging environmental requirements such as IMUs, platform stabilization, motion analysis and control, and many more.

Gyro 8 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             | Motion   |
| Applications     | Can be used for IMUs, platform stabilization, motion analysis and control, and more  |
| On-board modules | SCR2100-D08 - single-axis gyroscope from Murata  |
| Key Features     | High performance, single x-axis measurement, 3D-MEMS technology, self-diagnostic features, SPI serial interface, low power consumption, high stability, and more |
| Interface        | SPI  |
| 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

[Gyro 8 click example on Libstock](#)

[Gyro 8 click 2D and 3D files](#)

[SCR2100-D08 datasheet](#)

[Gyro 8 click schematic](#)

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