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Gyro 7 Click





PID: MIKROE-5145

Gyro 7 Click is a compact add-on board that contains a high-performance gyroscope. This board features the ICG-1020S, a dual-axis MEMS angular rate sensor (gyroscope) from TDK InvenSense. The ICG-1020S provides extremely low RMS noise as well as noise density. The high-resolution gyroscope supports a full-scale programmable range of ±46.5dps to ±374dps, a fast sample rate at up to 32kHz, an SPI serial interface, and extremely low power consumption. This Click board™ is designed for optical image stabilization (OIS) applications.

Gyro 7 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).

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Specifications

Type	Motion
Applications	Can be used for optical image stabilization (OIS) applications
On-board modules	ICG-1020S - dual-axis MEMS angular rate sensor (gyroscope) from TDK InvenSense
Key Features	Low power consumption, full-scale programmable range up to ±374dps, integrated 16-bit ADCs, user-programmable digital filters, interrupt, high performance, reliability, and more
Interface	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

Gyro 7 click example on Libstock

Gyro 7 click schematic

ICG-1020S datasheet

Gyro 7 click 2D and 3D files

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