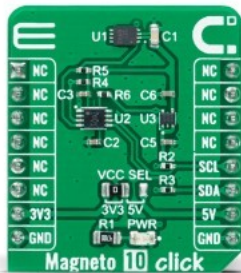


Magneto 10 Click



PID: MIKROE-4866

Magneto 10 Click is a compact add-on board that contains a 3D magnetometer. This board features the [MLX90392](#), a +/-5mT range magnetometer for low-noise applications from [Melexis Technologies](#). The MLX90392, specially designed for micropower applications, measures magnetic fields along the three axes (X, Y being in a plane parallel to the surface of the die, and Z being perpendicular to the surface). Those measurements and the MLX90392's temperature are converted into 16-bit words, transferred upon request over I2C communication. This Click board™ is suitable for position sensing requiring a small magnetic range and precise position measurement where noise is a critical design parameter.

Magneto 10 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	Magnetic
Applications	Can be used for position sensing requiring a small magnetic range and precise position measurement where noise is a critical design parameter
On-board modules	MLX90392 - three-axis micropower magnetic field sensor for low-noise applications based on a proprietary Triaxis technology from Melexis Technologies
Key Features	Low power consumption, high precision, Triaxis Hall technology for best-in-class in noise, integrated temperature sensor, 16-bit digital magnetic and temperature output, selectable operational modes, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Magneto 10 click schematic](#)

[MLX90392 datasheet](#)

[Magneto 10 click 2D and 3D files](#)

[Magneto 10 click example on Libstock](#)

[BH18PB1WHFV datasheet](#)

[PCA9306 datasheet](#)

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