

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.

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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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