

Magneto 11 Click



PID: MIKROE-5067

Magneto 11 Click is a compact add-on board that contains an accurate and reliable magnetic sensing device. This board features the AS5510, a linear hall sensor with 10-bit resolution, and an I2C interface from AMS-AG. It can measure the absolute position of lateral movement of a simple 2-pole magnet. A lateral stroke of 0.5mm ~ 2mm can be measured with air gaps around 1.0mm, depending on the magnet size. The AS5510 may be switched to a Power-Down state when it is not used to conserve power. This Click board™ is suitable for position sensing applications requiring a small magnetic range where noise is a critical design parameter.

Magneto 11 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 applications requiring a small magnetic range where noise is a critical design parameter
On-board modules	AS5510 - 10-bit linear position sensor with digital position (interface) output from AMS-AG
Key Features	Low power consumption, highest reliability and durability, high-resolution output, operates with wide magnetic range, programmable sensitivity, and more
Interface	I2C
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

[Magneto 11 click example on Libstock](#)
[Magneto 11 click schematic](#)
[AS5510 datasheet](#)
[Magneto 11 click 2D and 3D files](#)

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