

MRAM 2 Click



PID: MIKROE-4232

MRAM 2 Click is a compact add-on board for applications that must store and retrieve data and programs quickly using a small number of pins. This board features the [MR10Q010](#), 1Mb Quad Output High-Speed Serial SPI MRAM memory solution from [Everspin Technologies](#). It operates in both standard, single SPI and High-speed QUAD SPI mode with a clock rate up to 104MHz, it features high bandwidth (read and write at 52MB/sec), automatic data protection in case of power loss, and tamper detection function that will detect possible data modification from outside magnetic fields. This Click board™ can be used both as a non-volatile storage media, or temporary RAM expansion for storing data in any embedded application.

MRAM 2 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	MRAM
Applications	Can be used both as a non-volatile storage media, or temporary RAM expansion for storing data in any embedded application.
On-board modules	MRAM 2 Click is based on the MR10Q010, 1Mb Quad Output High-Speed Serial SPI MRAM memory solution from Everspin Technologies.
Key Features	Low power consumption, high bandwidth, data protection, unlimited write endurance, tamper detect function, and more.
Interface	QSPI,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

[MRAM 2 click 2D and 3D files](#)

[BH18PB1WHFVCT datasheet](#)

[TXB0106 datasheet](#)

[MR10Q010 datasheet](#)

[MRAM 2 click example on Libstock](#)

[MRAM 2 click schematic](#)

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