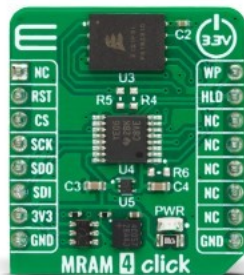


MRAM 4 Click



PID: MIKROE-5838

MRAM 4 Click is a compact add-on board representing a magneto-resistive random-access memory solution. This board features the [EM064LX](#), an industrial STT-MRAM persistent memory from [Everspin Technologies](#). It is a 64Mb MRAM IC RAM and can achieve up to 200MHz as a single and double data rate (STR/DTR). The MRAM technology is analog to Flash technology with SRAM-compatible read/write timings (Persistent SRAM, P-SRAM), where data is always non-volatile. It also has a hardware write-protection feature and performs read and write operations with data retention for ten years and unlimited read, write, and erase operations for the supported life of the chip. This Click board™ makes the perfect solution for the development of applications that need data storage and retrieval without incurring significant latency penalties.

MRAM 4 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 for the development of applications that need data storage and retrieval without incurring significant latency penalties
On-board modules	EM064LX - industrial STT-MRAM persistent memory from Everspin Technologies
Key Features	Security and write protections, erase capability as bulk and subsector, dedicated OTP area outside main memory, wide range SPI compatibility, low power modes, data integrity, 10 years of data retention, data endurance with unlimited read, write, and erase operations, and more
Interface	SPI
ClickID	Yes
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 4 click example on Libstock](#)

[MRAM 4 click 2D and 3D files](#)

[EM064LXQADG13IS1R datasheet](#)

[TXB0106 datasheet](#)

[MRAM 4 click schematic](#)

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