

FRAM 6 Click



PID: MIKROE-4831

FRAM 6 Click is a compact add-on board that contains highly reliable ferroelectric random access memory. This board features the [CY15B102Q](#), a 2Mbit nonvolatile memory employing an advanced ferroelectric process organized as 256K words of 8 bits each from [Infineon](#), now part of Infineon. This SPI configurable FRAM performs read and write operations similar to a RAM providing reliable data retention for 121 years while eliminating the complexities, overhead, and system-level reliability problems caused by serial flash, EEPROM, and other nonvolatile memories. This Click board™ is ideal for nonvolatile memory applications requiring frequent or rapid writes and unlimited endurance.

FRAM 6 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	FRAM
Applications	Can be used for nonvolatile memory applications requiring frequent or rapid writes and unlimited endurance
On-board modules	CY15B102Q - 2Mbit nonvolatile memory employing an advanced ferroelectric process organized as 256K words of 8 bits each from Cypress Semiconductor, now part of Infineon
Key Features	Low power consumption, high endurance, 121 years data retention, advanced high-reliability ferroelectric process, fast serial interface, sophisticated write protection scheme, and more
Interface	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

[FRAM 6 click example on Libstock](#)

[CY15B102Q datasheet](#)

[FRAM 6 click 2D and 3D files](#)

[FRAM 6 click schematic](#)

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