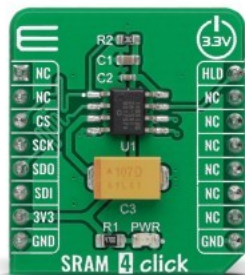


SRAM 4 Click



PID: MIKROE-4835

SRAM 4 Click is a compact add-on board that contains highly reliable nonvolatile memory. This board features the [CY14B512Q](#), a 512Kbit SRAM with a nonvolatile element in each memory cell from [Infineon](#), now part of Infineon. The embedded nonvolatile elements incorporate the QuantumTrap technology, with the entire memory internally organized as 64K words of 8 bits each. The SRAM provides infinite read and writes cycles, more precisely, one million data storage cycles with data retention of 20 years. Data transfer, initiated by the user through SPI commands, from SRAM to the nonvolatile elements automatically occurs at Power-Down. On the other hand, data is restored to the SRAM from the nonvolatile memory during the Power-Up. This Click board™ is suitable for all applications requiring fast access, high reliability of stored data, and unlimited endurance.

SRAM 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	SRAM
Applications	Can be used for all applications requiring fast access, high reliability of stored data, and unlimited endurance
On-board modules	CY14B512Q - 512Kbit nvSRAM memory organized as 64K words of 8 bits each from Cypress Semiconductor, now part of Infineon
Key Features	Low power consumption, high reliability, QuantumTrap technology, infinite read write and RECALL cycles, high-speed interface, HOLD feature, 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

[SRAM 4 click schematic](#)

[CY14B512Q datasheet](#)

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

[SRAM 4 click example on Libstock](#)

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