

nvSRAM 3 Click



PID: MIKROE-4497

nvSRAM 3 Click is a compact add-on board that contains the most reliable nonvolatile memory. This board features the [CY14B101I](#), a 1-Mbit nvSRAM organized as 128K words of 8 bits each with a fully-featured real-time clock from [Infineon](#). The embedded elements incorporate the QuantumTrap technology and provide highly reliable nonvolatile storage of data. It provides infinite read and writes cycles with an additional automatic backup switch. Data transfer, initiated by the user through I2C commands, from SRAM to the nonvolatile elements takes place automatically at Power-Down. On the other hand, during the Power-Up, data is restored to the SRAM from the nonvolatile memory. This Click board™ is suitable for all applications that require fast access and high reliability of stored data, and unlimited endurance.

nvSRAM 3 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 that require fast access and high reliability of stored data, and unlimited endurance.
On-board modules	CY14B101I - a 1-Mbit nvSRAM organized as 128K words of 8 bits each with a fully-featured real-time clock from Cypress Semiconductor
Key Features	Low power consumption, 1-Mbit nonvolatile static random access memory, high reliability, high speed interface, write protection feature, real-time clock, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

Downloads

[CY14B101I datasheet](#)

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

[nvSRAM 3 click schematic](#)

[nvSRAM 3 click example on Libstock](#)

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