

## EERAM 2 Click



PID: MIKROE-4129

EERAM 2 Click is a standalone serial SRAM memory that includes shadow non-volatile backup. EERAM uses a small external capacitor to provide the energy needed to move the contents of the SRAM to the non-volatile cells when system power is lost. Unlike NVSRAM, no external battery is needed. EERAM offers unlimited SRAM read and write cycles and more than 100,000 backups to the non-volatile cells. Since power loss events are typically random or unpredictable, EERAM works in applications that absolutely cannot lose the quickly changing SRAM data on any sudden power loss. It provides designers of a data logging/black box or monitoring systems with a safe and accurate way to safely, reliably and automatically store the last data bytes prior to the power loss event. The Vcc is monitored inside the IC and can automatically handle the data movement between the SRAM and the non-volatile memory on any power disruption.

The EERAM 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	EERAM
Applications	Provides an additional RAM memory for a wide range of embedded applications, especially useful if retaining of the working parameters is required upon the power failure or power off cycle
On-board modules	EERAM 2 Click uses the 48LM01 IC, a high accuracy temperature sensor, from Microchip
Key Features	Unlimited reads/writes on 1 Mbit of SRAM, with the automatic backup and recall to/from the integrated EEPROM, upon power-down. High-speed SPI interface on up to 66 MHz.
Interface	GPIO,SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

## Downloads

[48LM01 datasheet](#)

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

[EERAM 2 click example on Libstock](#)

[EERAM 2 click schematic](#)

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