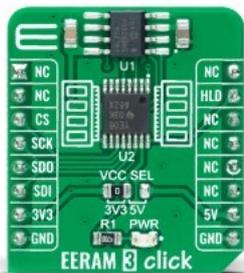


## EERAM 3 Click



PID: MIKROE-4854

**EERAM 3 Click** is a compact add-on board that contains EERAM memory designed to retain data during power loss without the aid of external batteries. This board features the 48L256, a serial EERAM with SRAM memory core, including hidden EEPROM backup from Microchip Technology. The 48L256 is structured as a 256-Kbit SRAM with EEPROM backup in each memory cell, where SRAM is organized as 32,768x8 bits and uses the SPI serial interface. It offers unlimited reads and writes, invisible-to-user data transfers on power loss, 100,000 backups (data can be transferred 100,000 times), and data retention (data is kept safe for 10 years minimum). This Click board™ is ideal for nonvolatile memory applications requiring frequent or rapid writes and unlimited endurance.

EERAM 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	EERAM
Applications	Can be used for nonvolatile memory applications requiring frequent or rapid writes and unlimited endurance
On-board modules	48L256 - serial EERAM with SRAM memory core, including hidden EEPROM backup from Microchip Technology
Key Features	Low power consumption, unlimited reads/writes, standard serial SRAM protocol, high-speed SPI interface, cell-based nonvolatile backup, data endurance and retention, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[EERAM 3 click example on Libstock](#)

[TXB0106 datasheet](#)

[48L256 datasheet](#)

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

[EERAM 3 click schematic](#)

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