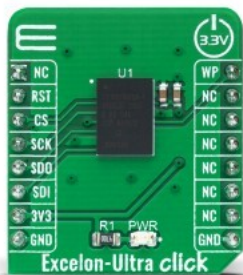


## Excelon-Ultra Click



PID: MIKROE-4698

**Excelon-Ultra Click** is a compact add-on board that contains the most reliable nonvolatile memory. This board features the [CY15B116QSN](#), a high-performance 16-Mbit nonvolatile memory that employs an advanced ferroelectric process from [Infineon](#). A ferroelectric random access memory (FRAM) is nonvolatile, performs reads and writes through SPI commands, and provides reliable data retention for 151 years while eliminating the complexities, overhead, and system-level reliability problems caused by serial Flash and other nonvolatile memories. This Click board™ is suitable for all applications that require fast access and high reliability of stored data, and unlimited endurance.

Excelon-Ultra 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 all applications that require fast write access, high reliability of stored data, and unlimited endurance   |
| On-board modules | CY15B116QSN - high-performance 16-Mbit nonvolatile memory that employs an advanced ferroelectric process from Infineon Technologies   |
| Key Features     | High-performance, 16-Mbit nonvolatile memory, single and multi I/O serial peripheral interface, write protection, data security, and data integrity, low power consumption, extended electronic signatures, and many more |
| Interface        | QSPI,SPI  |
| 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

[Excelon-Ultra click 2D and 3D files](#)

[CY15B116QSN datasheet](#)

[Excelon-Ultra click schematic](#)

[Excelon-Ultra click example on Libstock](#)

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