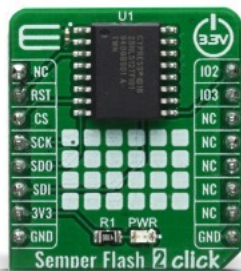


## Semper Flash 2 Click



PID: MIKROE-4028

**Semper Flash 2 Click** is a Click board™ which features the [S25HL512T](#) from [Cypress](#), a perfect solution for the mass storage option in various embedded applications. With fast performance being one of its key features, Semper Flash 2 click can also be used for the code shadowing, execute-in-place (XIP), and data storage. The Cypress Semper Flash with Quad SPI family of products are high-speed CMOS, MirrorBit NOR flash devices. Semper Flash is designed for Functional Safety with development according to ISO 26262 standard to achieve ASIL-B compliance and ASIL-D readiness. The 512 Mbit SPI Flash memory module is one of the fastest and most reliable Flash modules on the market module on the market with 3.0V core and I/O voltage.

The Semper Flash 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	FLASH
Applications	Mass storage option in multimedia devices, data drives, non-volatile data storage in embedded applications, secure storage, and similar applications that require reliable permanent storage of digital information.
On-board modules	S25HL512T, a 512 Mbit SPI/QSPI Flash memory module, from Cypress
Key Features	High durability of 1+ million cycles, Advanced Sector Protection (ASP), secure OTP memory block, high transfer speed, SFDP mode for easy retrieval of IC-specific information, AutoBoot function for improved startup performance
Interface	QSPI,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

[Semper Flash 2 click example on Libstock](#)

[Semper Flash 2 click 2D and 3D files](#)

[S25HL512T datasheet](#)

[Semper Flash 2 click schematic](#)

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