

eFuse 4 Click



PID: MIKROE-5501

eFuse 4 Click is a compact add-on board with a power path protection solution that limits circuit currents and voltages to safe levels during fault conditions. This board features the TPS25940, an eFuse power switch with reverse current blocking from Texas Instruments. The TPS25940 features a full suite of protection and monitoring functions, including a DevSleep™ mode that supports compliance with the SATA™ Device Sleep standard. The wide operating range from 2.7V to 18V allows control of many popular DC bus voltages. The additional potentiometer sets the overload and short-circuit current limit of the TPS25940, while the additional header allows external current monitoring. This Click board™ is suitable for systems with load-side holdup energy that must not drain back to a failed supply bus.

eFuse 4 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	Power Switch
Applications	Can be used for systems with load-side holdup energy that must not drain back to a failed supply bus
On-board modules	TPS25940 - eFuse power switch from Texas Instruments
Key Features	Reverse current blocking, DevSleep support for SSDs, wide operating voltage, programmable current limit, current monitoring, protection features, power-good and fault indicators, and more
Interface	GPIO,I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

Downloads

[eFuse 4 click 2D and 3D files](#)
[TPS25940 datasheet](#)
[AD5272 datasheet](#)
[eFuse 4 click schematic](#)
[eFuse 4 click example on Libstock](#)

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