

eFuse 2 Click



PID: MIKROE-4335

eFuse 2 Click is a compact add-on board that contains an integrated FET hot-swap device. This board features the TPS259631, a highly integrated circuit protection and power management solution from Texas Instruments. It provides multiple protection modes against overloads, short circuits, voltage surges, and excessive inrush current. Also, it is possible to get an accurate sense of the output load current by measuring the voltage drop across digital rheostat that can set the output current limit level. The device also uses an in-built thermal shutdown mechanism to protect itself during these fault events. This Click board™ is typically used for hot-swapping and power rail protection applications.

eFuse 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	Power Switch
Applications	Can be used for hot-swapping and power rail protection applications.
On-board modules	eFuse 2 Click is based on the TPS259631, an integrated eFuse device that is used to manage load voltage and load current from Texas Instruments.
Key Features	Adjustable current limit with load current monitor, overtemperature protection, fault indication, overvoltage protection, and adjustable undervoltage lockout, wide input voltage range, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

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

Downloads

[TPS2596 datasheet](#)
[AD5175 datasheet](#)
[AD5241 datasheet](#)
[eFuse 2 click 2D and 3D files](#)
[eFuse 2 click schematic](#)
[eFuse 2 click example on Libstock](#)

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).