

eFuse 5 Click



PID: MIKROE-5599

eFuse 5 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 [TPS16530](#), an easy-to-use, positive 58V, 4.5A eFuse with a 31mΩ integrated FET from [Texas Instruments](#). This industrial eFuse has programmable undervoltage, overcurrent, inrush current protection, and output current monitoring features. Besides, it allows flexibility to configure the device between the two current-limiting fault responses (latch off and auto-retry). This Click board™ provides robust protection for multiple faults on the system rail and current limiting for systems such as telecom radios and industrial printers.

eFuse 5 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 to provides robust protection for multiple faults on the system rail and current limiting for systems such as telecom radios and industrial printers
On-board modules	TPS16530 - industrial eFuse from Texas Instruments
Key Features	Wide operating voltage, adjustable current limit, protection features, power-good indicator, shutdown mode control, adjustable UVLO, selectable overcurrent fault response between Auto-Retry and Latch OFF, and more
Interface	GPIO,I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[eFuse 5 click example on Libstock](#)

[eFuse 5 click 2D and 3D files](#)

[TPS16530 datasheet](#)

[AD5171 datasheet](#)

[eFuse 5 click schematic](#)

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