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.

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