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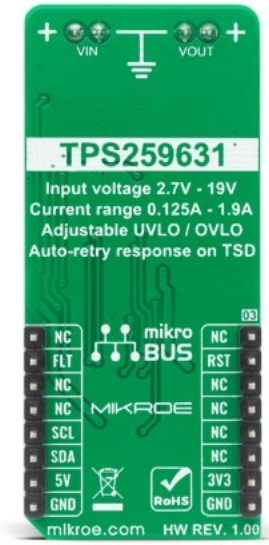
eFuse 2 Click



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.

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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