eFuse Click

PID: MIKROE-4726

eFuse Click is a compact add-on board that contains a programmable electronic power breaker. This board features the STPW12, an integrated electronic power breaker optimized to monitor the input power from STMicroelectronics. Connected in series to the power rail, it can disconnect the electronic circuitry on its output if the power consumption overcomes the programmed limit. The intervention of the protection is communicated to the MCU through a signal on the fault pin. The device can also be enabled/disabled through a dedicated Enable pin with a direct PWM mode, which can be achieved through an external PWM signal. This Click board™ is suitable for industrial and consumer applications, fault protection, overcurrent surge protection, and more.

eFuse 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 industrial and consumer applications, fault protection, overcurrent surge protection, and more
On-board modules	STPW12 - programmable electronic power breaker optimized to monitor the input power from STMicroelectronics
Key Features	Real-time input power sensing, undervoltage lockout, PWM mode, thermal shutdown, enable function, short-circuit current limit, and more
Interface	GPIO,PWM
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

eFuse click 2D and 3D files

STPW12 datasheet

eFuse click schematic

eFuse click example on Libstock

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