

Power MUX Click



PID: MIKROE-4109

Power MUX Click features power multiplexer that enables transition between two power supplies (such as a battery and a wall adapter), each operating at 2.8V to 5.5V and delivering up to 2A current depending on the package. This IC provides inrush current control and thermal protection to Power MUX Click, manual and auto-switching operating modes, cross-conduction blocking, and reverse-conduction blocking. Operating mode selection depends on a logic level on D0 and D1 pins. Power MUX Click can be used for the transition between two power supplies in applications such as PCs, PDAs, digital cameras, modems, digital radios, MP3 players, and similar applications.

Power MUX 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 | Power MUX Click can be used for the transition between two power supplies in applications such as PCs, PDAs, digital cameras, modems, digital radios, MP3 players, and similar applications. |
| On-board modules | Power MUX Click uses the TPS2115APWR IC, auto-switching power multiplexer that enables transition between two power supplies each operating at 2.8V to 5.5V voltage that comes from Texas Instruments. |
| Key Features | Inrush current control, thermal protection, manual and auto-switching operating modes, cross-conduction blocking, reverse-conduction blocking |
| Interface | GPIO |
| Compatibility | mikroBUS |
| Click board size | M (42.9 x 25.4 mm) |
| Input Voltage | 3.3V |

Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

Downloads

[Power MUX click 2D and 3D files](#)

[TPS2115APWR datasheet](#)

[Power MUX click example on Libstock](#)

[Power MUX click schematic](#)

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).