

Buck 15 Click



PID: MIKROE-6044

Buck 15 Click is a compact add-on board for precision voltage regulation across various applications. This board features the [TPS62903](#), a synchronous step-down DC/DC converter from [Texas Instruments](#). It is known for its adaptability, rapid transient response, and high output voltage accuracy of $\pm 1.5\%$ across all operating temperatures. Featuring the innovative DCS-control topology, it supports a wide input voltage range of 3V to 17V, an adjustable output voltage from 0.4V to 5V, and currents up to 3A. This Click board™ can be used in a variety of automotive applications, such as the ADAS, body electronics and lighting, infotainment and cluster, hybrid, electric, and powertrain systems, any application with a 12V input voltage or a 1-4 cell lithium battery pack, and more.

Buck 15 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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	Buck
Applications	Ideal for ADAS, body electronics and lighting, infotainment and cluster, hybrid, electric, and powertrain systems, any application with a 12V input voltage or a 1-4 cell lithium battery pack, and more
On-board modules	TPS62903 - synchronous step-down DC/DC converter from Texas Instruments
Key Features	Qualified for automotive applications, wide input range from various power sources, adjustable output, support high power demands, high output voltage accuracy, high efficiency DCS-control topology, overcurrent and overtemperature protection, power good indicator, and more
Interface	GPIO,I2C
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[TPS62903 datasheet](#)

[AD5242 datasheet](#)

[Buck 15 click 2D and 3D files](#)

[Buck 15 click example on Libstock](#)

[Buck 15 click schematic](#)

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