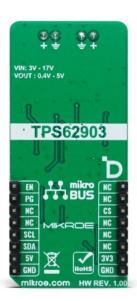


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## **Buck 15 Click**





PID: MIKROE-6044

**Buck 15 Click** is a compact add-on board for precision voltage regulation across various applications. This board features the <u>TPS62903</u>, a synchronous step-down DC/DC converter from <u>Texas Instruments</u>. 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 <sup>TM</sup> 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<sup>™</sup> socket and can be used on any host system supporting the  $\underline{\mathsf{mikroBUS}}^\mathsf{TM}$  standard. It comes with the  $\underline{\mathsf{mikroSDK}}$  open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this  $\underline{\mathsf{Click}}$  board  $\underline{\mathsf{mikroSDK}}$  apart is the groundbreaking  $\underline{\mathsf{ClickID}}$  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.







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## **Specifications**

Туре	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**

<u>mikroBUS™</u>

**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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health and safety management system.