

Buck-Boost 4 Click



PID: MIKROE-5924

Buck-Boost 4 Click is a compact add-on board that contains a buck-boost DC/DC converter with four integrated MOSFETs. This board features the [TPS55289](#), a buck-boost converter from [Texas Instruments](#). It can deliver on its output voltages from 0.8 up to 22V, from the input voltage in a range of 3 up to 30V. The output voltage can be programmed in 10mV steps. This Click board™ makes the perfect solution for the development of wireless chargers, USB PD chargers, docking stations, industrial equipment, and more.

Buck-Boost 4 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-Boost
Applications	Can be used for the development of wireless chargers, USB PD chargers, docking stations, industrial equipment, and more
On-board modules	TPS55289 - buck-boost converter from Texas Instruments
Key Features	Wide input voltage range, wide output voltage range, support for USB PD, high efficiency over the entire load range, rich protection features, EMI mitigation, PFM and FPWM mode, and more
Interface	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™](#)

[ClickID](#)

Downloads

[Buck-Boost 4 click example on Libstock](#)

[Buck-Boost 4 click 2D and 3D files](#)

[Buck-Boost 4 click schematic](#)

[TPS55289 datasheet](#)

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