

Buck 16 Click



PID: MIKROE-4846

Buck 16 Click is a compact add-on board that contains a DC-DC power converter that steps down the voltage from its input to its output. This board features the [TPS62912](#), a high-efficiency, low noise, and low ripple current-mode synchronous buck converter from [Texas Instruments](#). The TPS62912 has an output-voltage error of less than 1%, which helps ensure tight output-voltage accuracy, operates at a fixed switching frequency of 2.2MHz or 1MHz, and allows synchronization to an external clock. This Click board™ is suitable for noise-sensitive applications that generally use an LDO for post-regulation, such as high-speed ADCs, clock and jitter cleaner, serializer, de-serializer, and radar applications.

Buck 16 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	Buck
Applications	Can be used for noise-sensitive applications that generally use an LDO for post-regulation, such as high-speed ADCs, clock and jitter cleaner, serializer, de-serializer, and radar applications
On-board modules	TPS62912 - low-noise, low-ripple synchronous buck converter with a fixed-frequency current-mode from Texas Instrument
Key Features	Low output noise and voltage ripple, 2.2MHz or 1MHz fixed frequency peak current mode control, synchronizable with external clock, output voltage accuracy of $\pm 1\%$, power-good output, and more
Interface	GPIO, SPI
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

[Buck 16 click 2D and 3D files](#)

[MCP4161 datasheet](#)

[TPS62912 datasheet](#)

[Buck 16 click schematic](#)

[Buck 16 click example on Libstock](#)

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