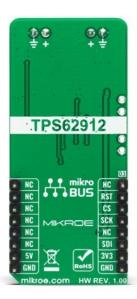MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

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.

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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 ±1%, power-good output, and more
Interface	GPIO,SPI
ClickID	No
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

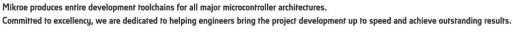[Buck 16 click 2D and 3D files](#)

[MCP4161 datasheet](#)

[TPS62912 datasheet](#)

[Buck 16 click schematic](#)

[Buck 16 click example on Libstock](#)