

Buck 20 Click



PID: MIKROE-5533

Buck 20 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 [MP2316](#), a fully-integrated, high-efficiency, synchronous, step-down switch-mode converter from [Monolithic Power Systems \(MPS\)](#). The MP2316 achieves 3A continuous output current over a wide input supply range from 4V to 19V. It has excellent load and line regulation and can operate efficiently over a vast output voltage load range. The MP2316 also offers advanced protection features such as undervoltage, overcurrent, and short-circuit detections. This Click board™ is suitable for battery-operated applications requiring high load efficiency.

Buck 20 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 battery-operated applications requiring high load efficiency
On-board modules	MP2316 - fully-integrated synchronous step-down switch converter from Monolithic Power Systems (MPS)
Key Features	High efficiency, 3A continuous output current, excellent load and line regulation, broad output voltage range selectable by digi pot, protection features, wide input range, selectable power supply, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V, External

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click Boards™](#)

Downloads

[Buck 20 click example on Libstock](#)
[AD5235 datasheet](#)
[MP2316 datasheet](#)
[Buck 20 click 2D and 3D files](#)
[Buck 20 click schematic](#)

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).