

Smart Buck 3 Click



PID: MIKROE-5741

Smart Buck 3 Click is a compact add-on board that contains a high-frequency synchronous step-down DC-DC converter. This board features the [TPS62366A](#), a processor supply with I2C compatible interface and a remote sense from [Texas Instruments](#). As input, it uses voltages in the range of 2.5V up to 5.5V, including support for common battery technologies. As output, the converter can scale voltage from 0.5V up to 1.77V in 10mV steps, retaining up to 2.5A peak output current, operating at 2.5MHz of the typical switching frequency. This Click board™ makes the perfect solution for the development of DSPs power supplies, portable devices, dynamic voltage scaling, and more.

Smart Buck 3 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 the development of DSPs power supplies, portable devices, dynamic voltage scaling, and more
On-board modules	TPS62366A - high-frequency synchronous step down DC-DC converter from Texas Instruments
Key Features	Highest efficiency, excellent DC output voltage regulation, soft start, programmable slew rate at voltage transition, over current protection, input under voltage detection/lock-out, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Smart Buck 3 click example on Libstock](#)

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

[Smart Buck 3 click schematic](#)

[TPS62366A datasheet](#)

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