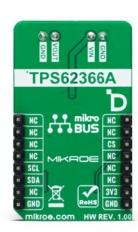


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Smart Buck 3 Click





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 <u>TPS62366A</u>, a processor supply with I2C compatible interface and a remote sense from <u>Texas Instruments</u>. 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 $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}\ \mathsf{board}^{\mathsf{TM}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{TM}}$ 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.







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Specifications

Туре	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	12C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

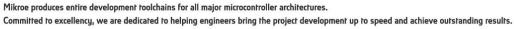
Downloads

Smart Buck 3 click example on Libstock

Smart Buck 3 click 2D and 3D files

Smart Buck 3 click schematic

TPS62366A datasheet







health and safety management system.