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Step Down 11 Click

PID: MIKROE-5936

Step Down 11 Click is a compact add-on board that converts higher voltages into lower voltage levels. This board features the TPSM82913, a low-noise and low-ripple buck power module from Texas Instruments. It is a fixed-frequency current-mode converter module with a filtered internal reference to achieve a low-noise output similar to low-noise LDOs. It uses voltages from 3V up to 17V as an input voltage to step it down from 1V up to 5.5V as an adjustable output with up to 3A of current. This Click board™ makes the perfect solution for the development of telecom infrastructure, test and measurement applications, medical equipment, and more.

Step Down 11 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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Specifications

Type	Buck
Applications	Can be used for the development of telecom infrastructure, test and measurement applications, medical equipment, and more
On-board modules	TPSM82913 - low-noise and low-ripple buck power module from Texas Instruments
Key Features	A low-noise and low-ripple buck power module, fixed frequency peak current mode control, wide input voltage range, wide output voltage range, precise enable input, power-good output, high output accuracy, and more
Interface	I2C
ClickID	Yes
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™

ClickID

Downloads

Step Down 11 click example on Libstock

TPSM82913 datasheet

Step Down 11 click 2D and 3D files

Step Down 11 click schematic

AD5142A datasheet