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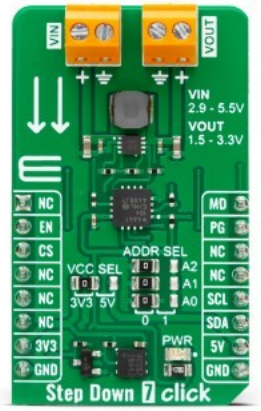
Step Down 7 Click



PID: MIKROE-5754

Step Down 7 Click is a compact add-on board that converts higher voltages into a lower voltages level. This board features the MAX17624, a synchronous step-down converter with integrated MOSFETs from Analog Devices. The converter, as input, uses voltages in the range from 2.9V up to 5.5V and can output step-down voltages from 1.5V to 3.3V up to 1A. It features high efficiency, and depending on the mode of operation, it works at a fixed 4MHz switching frequency. In addition, it comes with undervoltage lockout, overcurrent protection, and thermal overload protection. This Click board™ makes the perfect solution for the development of power conversion solutions in automation and control applications, industrial sensors, test and measurement equipment, portable low-power devices, and more.

Step Down 7 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 the development of power conversion solutions in automation and control applications, industrial sensors, test and measurement equipment, portable low-power devices, and more
On-board modules	MAX17624 - synchronous step-down converter with integrated MOSFETs from Analog Devices
Key Features	Internal soft start and pre-bias startup, overtemperature protection, overcurrent protection, 100% duty cycle operation, fixed 4MHz operation, PWM and PFM mode of operation, adjustable output, up to 1A of output current, digital potentiometer for feedback of the converter, and more
Interface	GPIO,I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Step Down 7 click example on Libstock

Step Down 7 click 2D and 3D files

Step Down 7 click schematic

MAX17624 datasheet

MCP4661 datasheet