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Buck 12 Click

PID: MIKROE-3652

Buck 12 Click is a high-efficiency step-down converter which provides 3.3V on its output, derived from the connected power supply voltage, in the range from 4.2V to 18V. Buck 12 click is based on the MPQ8632, a highly efficient DC-DC step-down converter. In addition, Buck 12 click offers monitoring the stability of the input and output voltage by employing an additional A/D converter circuit. Due to its high efficiency, MPQ8632 allows the Click board™ to easily deliver up to 4A of current. It features a package which enables a low noise performance, high efficiency, and very compact size, while maintaining compability with higher current ICs from the family.

Buck 12 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	It can be used for a wide range of applications that require 3.3V, including field embedded applications, sensors, PLC modules, video surveillance systems, and similar applications that require step-down voltage conversion.
On-board modules	MPQ8632, a synchronous step-down converter, from MPS; MCP3202, a Dual Channel 12-Bit A/D Converter from Microchip.
Key Features	Low power dissipation due to high efficiency, over-current, under-voltage, and thermal protection, wide range for the input supply voltage, ADC for measuring the output voltage accuracy, etc.
Interface	SPI
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

mikroBUS™ Standard specification

LibStock: mikroSDK

Click board™ Catalog

Click boards™ Standard Page

Downloads

Buck 12 click example on Libstock

Buck 12 click 2D and 3D files

MPQ8632 datasheet

Buck 12 click schematic