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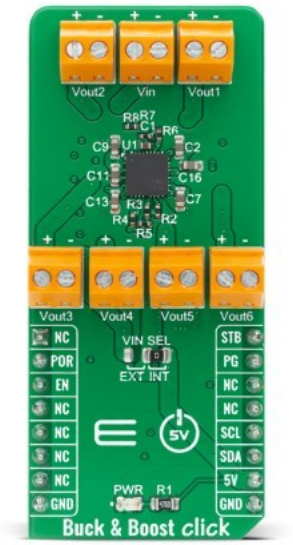
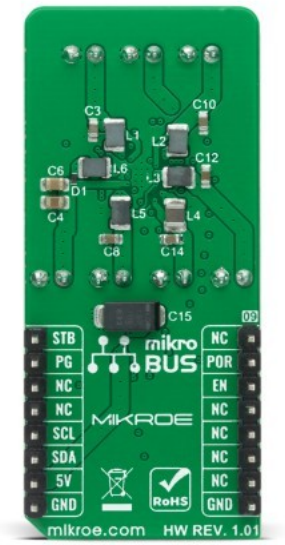
Buck & Boost Click





PID: MIKROE-4354

Buck & Boost Click is a compact add-on board that contains a configurable power management device. This board features the MIC7401, a highly-integrated power-management IC featuring five synchronous buck regulators, one boost regulator, and a high-speed I2C interface with an internal EEPROM memory from Microchip. The MIC7401 offers two distinct modes of operation (Standby and Normal) and includes a global enable pin to shut down the device for additional power savings. Some features of this Click board™ like an energy-optimized solution, flexibility, and high-performance make it an excellent choice for portable handheld and infotainment applications.

Buck & Boost 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-Boost
Applications	Can be used for portable handheld and infotainment applications.
On-board modules	Buck & Boost Click is based on the MIC7401, a powerful highly-integrated configurable power management (PMIC) featuring buck and boost regulators and a high-speed I2C interface with an internal EEPROM memory and micro-power shutdown function from Microchip.
Key Features	High-density five buck channels, one independent boost channel, 93% peak efficiency, fast transient response, short-to-ground fault detection, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Buck & Boost click 2D and 3D files

MIC7401 datasheet

Buck & Boost click example on Libstock

Buck & Boost click schematic