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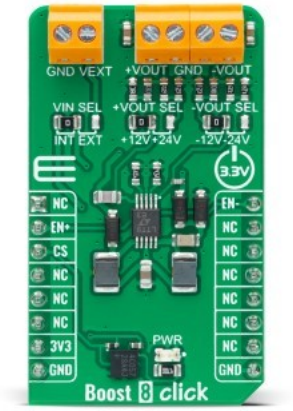
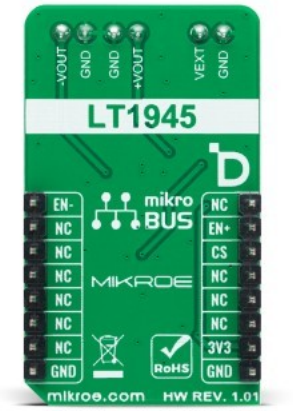
Boost 8 Click





PID: MIKROE-5468

Boost 8 Click is a compact add-on board that steps up the voltage from its input (supply) to its output (load). This board features the LT1945, a dual micropower DC/DC converter from Analog Devices. Each converter inside the LT1945 is designed with a 350mA current limit generating well-regulated positive and negative outputs of ±12V or ±24V, making the LT1945 ideal for various applications. In addition to the possibility of working with a 3.3V mikroBUS™ power rail, it also provides the opportunity of using an external power supply with a very low voltage of 2.7V. A current-limited, fixed-off-time control scheme conserves operating current, resulting in high efficiency over a broad range of load current. This Click board™ is used to step up an input voltage to some higher level, required by a load, for various applications that require "split rail" operating voltages.

Boost 8 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	Boost
Applications	Can be used to step up an input voltage to some higher level
On-board modules	LT1945 - dual micropower DC/DC converter from Analog Devices
Key Features	Regulated negative and positive outputs, current-limited, high efficiency, fixed off-time control scheme, low power consumption, selectable converter power supply, software-controlled output channels, and more
Interface	GPIO
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

LT1945 datasheet

Boost 8 click 2D and 3D files

Boost 8 click schematic

Boost 8 click example on Libstock