

Boost-INV 3 Click



PID: MIKROE-5755

Boost-INV 3 Click is a compact add-on board designed to supply positive/negative-driven applications. This board features the TPS65132, a dual-output power supply from Texas Instruments. The TPS65132 uses a single inductor scheme for both outputs to provide the user with the smallest solution size and high efficiency. It also offers the best line and load regulation at low noise with a programmable output voltage via an I2C compatible interface, from $\pm 4V$ to $\pm 6V$ in 100mV steps ($\pm 5.4V$ pre-programmed output voltage with maximum 80mA output current). This Click board™ is the perfect solution for any application requiring positive and negative supplies.

Boost-INV 3 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.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Boost
Applications	Can be used for any application requiring positive and negative supplies
On-board modules	TPS65132 - dual-output power supply from Texas Instruments
Key Features	Single inductor scheme, programmable output voltage, I2C interface, outstanding efficiency, excellent performance, undervoltage lock-out and thermal protection, and more
Interface	I2C
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

[Boost-INV 3 click example on Libstock](#)
[Boost-INV 3 click 2D and 3D files](#)
[TPS65132 datasheet](#)
[Boost-INV 3 Click Schematic](#)

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