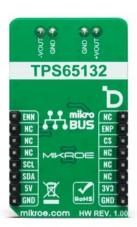


MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918 Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com www.mikroe.com

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 -±4V to ±6V in 100mV steps (±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 <u>Click board™</u> 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.





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Specifications

Туре	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

<u>mikroBUS™</u>

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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