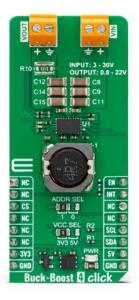
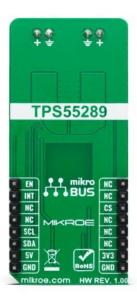
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Buck-Boost 4 Click





PID: MIKROE-5924

Buck-Boost 4 Click is a compact add-on board that contains a buck-boost DC/DC converter with four integrated MOSFETs. This board features the <u>TPS55289</u>, a buck-boost converter from <u>Texas Instruments</u>. It can deliver on its output voltages from 0.8 up to 22V, from the input voltage in a range of 3 up to 30V. The output voltage can be programmed in 10mV steps. This Click board™ makes the perfect solution for the development of wireless chargers, USB PD chargers, docking stations, industrial equipment, and more.

Buck-Boost 4 Click is fully compatible with the mikroBUSTM socket and can be used on any host system supporting the $\underline{\mathsf{mikroBUS}^{\mathsf{TM}}}$ standard. It comes with the $\underline{\mathsf{mikroSDK}}$ open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this $\underline{\mathsf{Click}}$ board $\underline{\mathsf{TM}}$ apart is the groundbreaking $\underline{\mathsf{ClickID}}$ feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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.





health and safety management system.



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Specifications

| Туре | Buck-Boost |
|------------------|--|
| Applications | Can be used for the development of wireless chargers, USB PD chargers, docking stations, industrial equipment, and more |
| On-board modules | TPS55289 - buck-boost converter from Texas Instruments |
| Key Features | Wide input voltage range, wide output voltage range, support for USB PD, high efficiency over the entire load range, rich protection features, EMI mitigation, PFM and FPWM mode, and more |
| Interface | I2C |
| ClickID | Yes |
| Compatibility | mikroBUS™ |
| Click board size | L (57.15 x 25.4 mm) |
| Input Voltage | 3.3V or 5V,External |

Resources

<u>mikroBUS™</u>

mikroSDK

Click board™ Catalog

Click boards™

ClickID

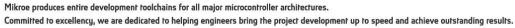
Downloads

Buck-Boost 4 click example on Libstock

Buck-Boost 4 click 2D and 3D files

Buck-Boost 4 click schematic

TPS55289 datasheet







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