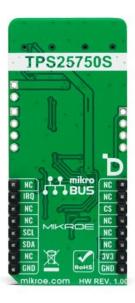
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USB-C Power Click





PID: MIKROE-5682

USB-C Power Click is a compact add-on board that provides a quick and easy way to supply power without carrying multiple adapters or cables. This board features the <u>TPS25750S</u>, a highly integrated USB Type-C and Power Delivery (PD) controller with integrated power switches optimized for power applications from <u>Texas Instruments</u>. The TPS25750S integrates fully managed power paths (5V/3A with $36m\Omega$ sourcing switch) with robust protection (reverse and inrush current as well as over/under voltage protection) and control for external battery charger IC for a complete USB-C PD solution. Besides web-based GUI and pre-configured firmware, the TPS25750S also has some GPIOs and LED indicators that are user-defined for either status or control information. This Click board TM is optimized for applications supporting USB-C PD Power like power tools, power banks, retail automation, and other personal electronics and industrial applications.

USB-C Power Click is supported by a $\frac{\text{mikroSDK}}{\text{compliant library}}$, which includes functions that simplify software development. This $\frac{\text{Click board}}{\text{comes}}$ comes as a fully tested product, ready to be used on a system equipped with the $\frac{\text{mikroBUS}}{\text{mikroBUS}}$ 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	USB-C PD
Applications	Can be used for applications supporting USB-C PD Power like power tools, power banks, retail automation, and other personal electronics and industrial applications
On-board modules	TPS25750S - USB Type-C and Power Delivery (PD) controller from Texas Instruments
Key Features	Integrated fully managed power paths, robust power path protection, optimized for power applications, I2C control for TI battery chargers, web-based GUI and pre-configured firmware, user-configurable GPIOs and LED indicators, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

TPS25750S datasheet

USB-C Power click 2D and 3D files

USB-C Power click schematic

USB-C Power click example on Libstock

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health and safety management system.