

USB-C Sink 3 Click



PID: MIKROE-5791

USB C Sink 3 Click is a compact add-on board with a standalone autonomous USB power delivery controller. This board features the AP33771, a high-performance USB PD sink controller from Diodes Incorporated. It supports dead battery mode to allow a system to be powered from an external source directly, establishes a valid source-to-sink connection, and negotiates a USB power delivery (PD) contract with a PD-capable source device. It also supports a flexible PD3.0 and PPS for applications that require direct voltage and current requests, with fine-tuning capabilities. This Click board™ makes the perfect solution for the development of USB Type-C connector-equipped battery-powered devices or DC-power input devices, USB PD3.0 PPS testers, and more.

USB C Sink 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	USB-C PD
Applications	Can be used for the USB Type-C connector-equipped battery-powered devices or DC-power input devices, USB PD3.0 PPS testers, and more
On-board modules	AP33771 - high-performance USB PD sink controller from Diodes Incorporated
Key Features	Large voltage operating range, compliant with USB PD rev3.0 V1.2, power capability selection, PD sink controller, supports PPS, OTP, supports OVP, supports dead-battery mode, testing pads, and more
Interface	I2C,SPI
ClickID	Yes
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

[USB-C Sink 3 click example on Libstock](#)

[MCP41100 datasheet](#)

[AP33771 datasheet](#)

[TCA9536 datasheet](#)

[USB-C Sink 3 click 2D and 3D files](#)

[USB-C Sink 3 click schematic](#)

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