

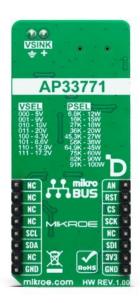
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USB-C Sink 3 Click





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 <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	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

<u>mikroBUS™</u>

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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