

Opto 7 Click



PID: MIKROE-5923

Opto 7 Click is a compact add-on board that provides uncomplicated safety isolation from high voltage. This board features two [ISOM8710](#), high-speed single-channel opto-emulators from [Texas Instruments](#). The ISOM8710 opto-emulator has a diode-emulator input and digital output. It has a robust isolation barrier capable of withstanding up to 3750VRMS and a surge capability of up to 10KV. This Click board™ makes the perfect solution for the development of power supplies, grids, electricity meters, motor drives, factory automation and control, building automation, and more.

Opto 7 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking [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.



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	Optocoupler
Applications	Can be used for the development of power supplies, grids, electricity meters, motor drives, factory automation, and control, building automation, and more
On-board modules	ISOM8710 - high-speed single-channel opto-emulator from Texas Instruments
Key Features	Single-channel diode-emulator input, CMOS output, high data rate, robust isolation barrier, low power consumption, tight process controls result in small part-to-part skew, low propagation delay, small pulse width distortion, high common mode transient immunity, and more
Interface	GPIO,UART
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[Opto 7 click example on Libstock](#)

[Opto 7 click 2D and 3D files](#)

[ISOM8710 datasheet](#)

[Opto 7 click schematic](#)

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