

DIGI Isolator Click



PID: MIKROE-5178

DIGI Isolator Click is a compact add-on board that provides electrical isolation and signal conditioning for the serial peripheral interface and a UART interface. This board features two [DCL540C01s](#), high-speed, quad-channel digital isolators from [Toshiba Semiconductor](#). Depending on the usage, this CMOS isolator can achieve data rates of up to 150Mbps, while withstanding up to 5kVrms voltage. DIGI Isolator Click is designed to isolate two additional IO pins besides SPI and UART interfaces. This Click board™ makes the perfect solution for developing industrial automation systems, motor control, inverters, switching power supplies, general SPI, and UART interfaces isolation where needed.

DIGI Isolator 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.

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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	Isolators,SPI
Applications	Can be used for developing industrial automation systems, motor control, inverters, switching power supplies, general SPI, and UART interface isolation where needed
On-board modules	DCL540C01 - quad-channel digital isolator from Toshiba Semiconductor
Key Features	Quad channel isolation withstanding up to 5kVrms of voltage, standard 4-Wire SPI serial interface isolation, standard 2-Wire UART interface isolation, additional two digital IO isolation, connection of isolated device over both the screw terminals and male headers
Interface	GPIO,SPI,UART
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[DCL540C01 datasheet](#)

[DIGI Isolator click 2D and 3D files](#)

[DIGI Isolator cick schematic](#)

[DIGI Isolator click example on Libstock](#)

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