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RS232 Isolator 2 Click

PID: MIKROE-4536

RS232 Isolator 2 Click is a compact add-on board that contains a fully isolated transceiver used to provide secure and easy UART to RS232 conversion. This board features the ICL3221, a 3.3V powered RS232 transmitter/receiver that provides ±15kV ESD protection on its RS232 pins from Renesas. This Click board™ is characterized by an assured minimum data rate of 250kbps. It features an automatic power-down function and uses high-speed digital optocouplers to isolate the RS232 interface for 3.75kV isolation. It also possesses an LED indicator that indicates a valid RS232 signal at any of the receiver inputs. This Click board™ is suitable for isolation of RS232 signals, portable equipment, and where the low operational power consumption and even lower standby power consumption are critical.

RS232 Isolator 2 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).

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Specifications

Type	Isolators,RS232
Applications	Can be used for isolation of RS-232 signals, portable equipment, and where the low operational power consumption and even lower standby power consumption are critical.
On-board modules	ICL3221 - RS-232 transmitter/receiver that provide ±15kV ESD protection on its RS-232 pins from Renesas PS9121 - optically coupled high-speed active low type isolator from Renesas
Key Features	Low power consumption, automatic power-down, assured minimum data rate of 250kbps, an isolated RS-232 interface using Renesas digital high-speed optocouplers, and more.
Interface	UART
ClickID	No
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

TC7SZ125FU datasheet

PS9121 datasheet

ICL3221EF datasheet

RS232 Isolator 2 click schematic

RS232 Isolator 2 click 2D and 3D files

RS232 Isolator 2 click example on Libstock