

## 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  $\pm 15\text{kV}$  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).

## 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 $\pm 15\text{kV}$ 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](#)

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).