

RS232 to I2C Click



PID: MIKROE-5056

RS232 to I2C Click is a compact add-on board representing a universal usable RS232 to I2C converter. This board features the [ZDU0110RFX](#), a bridge between a UART port and an I2C bus from [Littelfuse](#), which at the same time represents the connection between the MCU and the RS232 line driver and receiver, the [MAX3232](#). The ZDU0110RFX provides full-duplex asynchronous communications with a 128 byte FIFO buffer, of which 64 bytes each are allocated to receive and transmit operations. It also contains a 4kbit EEPROM and GPIO with programmable interrupt capability; programmable interrupts and interrupt lines for UART and GPIO notifications. This Click board™ is suitable for use in multiple applications such as communication bridges, process and automation control, terminal servers, and many more.

RS232 to I2C 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	RS232
Applications	Can be used in multiple applications such as communication bridges, process and automation control, terminal servers, and many more
On-board modules	ZDU0110RFX - bridge between a UART port and an I2C bus from Zilog, which at the same time represents the connection between the MCU and the RS232 line driver and receiver, the MAX3232
Key Features	Control via I2C interface, 4KB built-in EEPROM, interrupt lines for UARTs and GPIOs for notification, low power consumption, high reliability, and more
Interface	I2C
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

[RS232 to I2C click example on Libstock](#)

[MAX3232 datasheet](#)

[ZDU0110RFX datasheet](#)

[RS232 to I2C click 2D and 3D files](#)

[RS232 to I2C click schematic](#)

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