

RS485 5 Click



PID: MIKROE-4156

The **RS485 5 Click** is a Click board™ equipped with the [MAX485](#), low-power, slew-rate-limited transceiver for RS-485 and RS-422 communication, from [Maxim Integrated](#). This device supports half-duplex RS-485 communication and can be used as an interface between the TTL level UART and the RS485 communication bus. Thanks to the low power consumption and reduced slew-rate drivers that minimize EMI and reduce reflections caused by improperly terminated cables, error-free data transmission up to 250kbps is supported. RS485 5 Click is perfectly suitable for EMI-Sensitive Applications, such as industrial-control local area networks, building automation, HVAC systems, and many more.

RS485 5 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	RS485
Applications	Transceiver RS422/RS485 communication bus over UART interface for various automation systems, controllers, sensors and small embedded devices that can all share the same bus.
On-board modules	MAX485, low-power transceiver for RS-485 and RS-422 communication
Key Features	Transceiver draw between 120µA and 500µA of supply current when unloaded or fully loaded with disabled drivers. Driver is short-circuit current limited and is protected against excessive power dissipation by thermal shutdown circuitry. The receiver input has a fail-safe feature that guarantees a logic-high output if the input is open circuit.
Interface	GPIO, UART
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[RS485 5 click example on Libstock](#)

[MAX1487-MAX491 datasheet](#)

[RS485 5 click 2D and 3D files](#)

[RS485 5 click schematic](#)

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