

RS Transceiver Click



PID: MIKROE-5746

RS Transceiver is a compact add-on board that offers an interface between the TTL level UART and RS-232/RS-422/RS-485 communication buses. This board features the [XR34350](#), an RS-232/RS-422/RS-485 serial transceiver with internal termination and wide output swing from [MaxLinear](#). Integrated cable termination and four configuration modes allow all three protocols to be used interchangeably over a single cable over the DE-9 connector. All transmitter outputs and receiver inputs feature robust ESD protection and HBM up to $\pm 15\text{kV}$. This Click board™ makes the perfect solution for the development of low-power serial communications, portable serial devices, point-of-sale equipment, HVAC systems, building automation, and many more applications.

RS Transceiver 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,RS485
Applications	Can be used for the development of low-power serial communications, portable serial devices, point-of-sale equipment, HVAC systems, building automation, and more
On-board modules	XR34350 - RS-232/RS-422/RS-485 serial transceiver with internal termination and wide output swing from MaxLinear
Key Features	Dual protocol serial ports RS232 or RS485/RS422, RS485/RS422 signaling rate up to 20Mbps, RS232 up to 1Mbps, up to 256 nodes, slew limiting to 250Kbps, high swing driver outputs, half/full duplex, loopback mode, internal termination resistor, robust ESD protection, and more
Interface	I2C,UART
ClickID	Yes
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

[RS Transceiver click example on Libstock](#)

[RS Transceiver click schematic](#)

[TCA9536 datasheet](#)

[RS Transceiver click 2D and 3D files](#)

[XR34350 datasheet](#)

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