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 ±15kV. 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.

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