

RS485 8 Click



PID: MIKROE-5752

RS485 8 Click is a compact add-on board that enables communication over an RS485 network. This board features the [THVD1426](#), an RS485 transceiver with auto-direction control and ESD protection from [Texas Instruments](#). The THVD1426 offers bus protection for contact discharge, air gap discharge, fast transient burst, and +/-16V bus fault protection. With its high immunity to IEC Contact Discharge ESD events, the bus pins require no additional system-level protection components. The transceiver works in half-duplex mode with data rates of up to 12Mbps. Additionally, the chip is known for its low power consumption and glitch-free power-up/power-down functionality, which enables hot plug-in capability. This Click board™ makes the perfect solution for the development of industrial and multi-point applications over long cable runs.

RS485 8 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.

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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	Can be used for the development of industrial and multi-point applications over long cable runs
On-board modules	THVD1426 - an RS485 transceiver with auto-direction control and ESD protection from Texas Instruments
Key Features	Highly flexible, selectable power and logic voltage levels, half-duplex mode, optional 120Ω termination resistor jumper on bus pins, 600W asymmetrical diode array on bus pins, bus I/O protection, low power consumption, glitch-free power-up/power-down for hot plug-in capability, protection features, and more
Interface	UART
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[RS485 8 click example on Libstock](#)

[THVD1426 datasheet](#)

[RS485 8 click 2D and 3D files](#)

[RS485 8 click schematic](#)

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