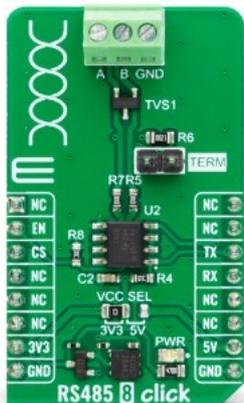


RS485 8 Click



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.

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	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](#)

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).