

RS485 7 Click



PID: MIKROE-5659

RS485 7 Click is a compact add-on board that enables communication over an RS485 network. This board features the [THVD1424](#), a full duplex RS485 transceiver with a selectable data rate from [Texas Instruments](#). The THVD1424 offers several pin-controlled features, including an on-chip 120Ω termination resistor, slew rate control, and the ability to switch between half and full duplex mode. With its high immunity to IEC Contact Discharge ESD events, the bus pins require no additional system-level protection components. 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™ is suitable for industrial and multi-point applications over long cable runs.

RS485 7 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 industrial and multi-point applications over long cable runs
On-board modules	THVD1424 - full duplex RS485 transceiver from Texas Instruments
Key Features	Highly flexible, selectable power and logic voltage levels, configurable half and full duplex mode, pin-configurable 120Ω termination resistor on bus pins, configurable data rate, bus I/O protection, low power consumption, glitch-free power-up/power-down for hot plug-in capability, protection features, and more
Interface	GPIO,UART
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 7 click example on Libstock](#)

[RS485 7 click 2D and 3D files](#)

[THVD1424 datasheet](#)

[RS485 7 click schematic](#)

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