

## RS485 6 Click



PID: MIKROE-3993

**RS485 6 Click** offers a half-duplex RS-485 communication with integrated surge protection, which can be used as an interface between the TTL level UART and the RS485 communication bus. It is based on [THVD1429DT](#), a transceiver from [Texas Instruments](#) with signaling rate of up to 20 Mbps. This device features a wide common-mode voltage range from 3.3V to 5V, which makes it suitable for multi-point applications over long cable runs and noisy areas thanks to the integrated transient voltage suppressor (TVS) diodes in. This device and type of network is perfectly suitable for wireless infrastructure, building automation, HVAC systems or factory automation, and many more.

RS485 6 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	This device is perfectly suitable for wireless infrastructure, building automation, HVAC systems or factory automation, smart meters.
On-board modules	THVD1329DT a half-duplex RS-485 communication with integrated surge protection from Texas Instruments
Key Features	Surge protection on the RS485 Line, up to 256 nodes, signaling rate of up to 20 Mbps.
Interface	UART
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[RS485 6 click schematic](#)

[THVD1429 datasheet](#)

[RS485 6 click example on Libstock](#)

[RS485 6 click 2D and 3D files](#)

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