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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 $^{\text{\tiny TM}}$ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS $^{\text{\tiny TM}}$ socket.

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health and safety management system.



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Specifications

Туре	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
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

www.mikroe.com

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

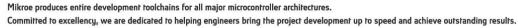
Downloads

RS485 6 click schematic

THVD1429 datasheet

RS485 6 click example on Libstock

RS485 6 click 2D and 3D files







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