

M-Bus Slave Click



PID: MIKROE-4137

M-Bus Slave Click is a Click board™ equipped with the TSS721A, a single chip transceiver developed by Texas Instruments for Meter-Bus applications according to EN1434-3 standard. The connection to the bus is polarity independent and serves as a slave node in the system. M-Bus Slave Click has full galvanic isolation with optocouplers to improve the reliability of the whole circuit. The circuit is supplied by the master via the bus. Therefore, this circuit offers no additional load for the slave battery. The TSS721A has a power-fail function integrated within. This solution is perfect for a plethora of applications like remote reading of gas, water, heat or electricity, or other types of consumption meters.

The M-Bus Slave 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	RS232
Applications	Remote sensor reading, remote control over M-Bus
On-board modules	M-Bus Slave Click uses the TSS721A IC, a single chip transceiver developed for Meter-Bus standard, from Texas Instruments
Key Features	Galvanically isolated, Slave node
Interface	UART
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

Downloads

[M-Bus Slave click example on Libstock](#)

[M-Bus Slave click 2D and 3D files](#)

[TSS721A datasheet](#)

[M-Bus Slave click schematic](#)

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