

Single Wire CAN Click



PID: MIKROE-4225

Single Wire CAN Click is a compact add-on board that contains an IC for a single wire data link capable of operating with various protocols such as the Controller Area Network (CAN). This board features the [NCV7356D1R2G](#), Single Wire CAN transceiver from [ON Semiconductor](#), which operates from a supply voltage from 5V to 27V with bus speed up to 40 kbps. It supports many additional features like an under-voltage lockout, a timeout for faulty blocked input signals, output blanking time in case of bus ringing, and a very low sleep mode current. This Click board™ can be used in industrial equipment, in-vehicle, and industrial networking, and in applications where the high data rate is not required and a lower data rate can achieve cost reductions.

Single Wire CAN 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	CAN
Applications	Can be used in industrial equipment, and applications such as in-vehicle and industrial networking.
On-board modules	Single Wire CAN Click is based on the NCV7356D1R2G, a Single Wire CAN transceiver from ON Semiconductor, which operates from a supply voltage from 5V to 27V with a bus speed up to 40 kbps.
Key Features	Low power consumption, fully integrated receiver filter, loss of ground protection, undervoltage lockout, 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

[Single Wire CAN click 2D and 3D files](#)

[NCV7356 datasheet](#)

[Single Wire CAN click example on Libstock](#)

[Single Wire CAN click schematic](#)

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