

CANopen I/O modules: Ready for CANopen FD (flexible data rate)

□ The MicroControl CAN/CANopen I/O modules are available as serial products or may be customized to specific requirements as development, engineering, configuration, and manufacturing are made in Germany. The modules support the higher-layer protocols CANopen, CANopen FD, and J1939.

Features:

- 1-channel to 8-channel modules
- Analog input: ± 10 V, 0 (4) mA to 20 mA
- Analog output: ± 10 V, 0 mA to 20 mA
- Analog input DMS (strain gauge)
- Analog input temperature thermocouple
- Analog input temperature Pt100, Pt200, Pt500, Pt1000
- Digital input or output
- Digital counter up to 500 kHz
- Digital pulse width output (PWM) up to 1,4 A

µCAN-BOX family

The robust modules link digital and analog I/O signals to a CAN network and facilitate connection of sensors and actuators. They may be installed directly at the signal source, installation of an additional switching cabinet is not necessary. Transmission of digitized data via CAN reduces costs for installation of control and signal wires and increases data security. The modules can be used in extreme conditions with typical applications in:

- Construction cranes and road construction machinery
- Off-road and heavy-duty vehicles
- Tractors and combine harvesters
- Wind and solar power plants

µCAN-Snap series

The decentralized modules with a width of 22,5 mm and a low weight are designed to be mounted on a TS35 DIN rail system. The devices connect sensors and actuators to the CAN network. CANopen, J1939, and a variety of manufacturer-specific higher-layer protocols are supported.

µCAN-F1 modules

The compact, IP65-rated modules are used to acquire measurement data on the spot. They can be expanded and stacked as desired and are equipped with inputs for voltage, current, temperature, strain gauge, or frequency measurements.

µCAN transmitter family

The miniaturized electronics of the family forms the link between analog sensor technology and digital CAN networks. The IP67-rated cable modules are designed for integration in the measuring lines. Analog signals are digitized and sent to an evaluation unit via the integrated CAN interface. CANopen, J1939, and a variety of manufacturer-specific higher-layer protocols are supported.

Bit-rates and node-IDs of the modules are set via the layer setting services (LSS) according to the CANopen specification CIA 305. Users may refer to the Application Note AN1204, which describes the required CAN messages for an example configuration.

µLAB product family

With its standard 19-inch casings the family is suited for industrial and experimental research and testing tasks. It offers high packing density, flexibility of connection equipment and may be combined with different operating and display terminals. The devices are particularly suitable for measuring of electric, thermal, and mechanic signals in engine- or component-testing facilities.

µCAN sensor family

The miniaturized modules facilitate connection of diverse sensors to CAN systems. They are available in individual PCB (printed circuit board) designs to enable integration directly in the sensor's customized casings and to form a closed unit. Thus, electronics and sensor are matched to achieve high accuracy. CANopen, DeviceNet, and a variety of manufacturer-specific higher-layer protocols are supported.

Contact

□

Microcontrol GmbH und Co. KG

Junkersring 23
DE-53844 Troisdorf

Email: info@microcontrol.net

Phone: +49-2241-25659-0

Fax: +49-2241-25659-11

Web: <https://www.microcontrol.net>

Sales contact:

Frank Wielpütz

Phone: +49-2241-25659 0

Fax: +49-2241-25659 11

Email: sales.de@microcontrol.net

Features

No features listed.