

Reduce complexity in CAN control networks with compact CANopen modules

Rottweil, August 2023 – MRS Electronic, a leading provider of smart electronic solutions and systems for the automotive industry, relies on CANopen as a communication protocol and presents advantages and features of its self-developed CANopen solutions.

What is CANopen?

CANopen is a standardized communication protocol based on the Controller Area Network (CAN). It has become established in many industries, including on/offroad vehicles such as agricultural and commercial vehicles or marine. The technology is based on the international standards of the CAN in Automation (CiA) association, which ensures interoperability between devices from different manufacturers.

In a CANopen network, data and commands are exchanged according to a method standardized by CiA. This promotes efficient and reliable communication between systems. Thanks to this structure, errors can be quickly identified, located and corrected, simplifying maintenance and servicing while ensuring data integrity and reliability.

MRS Electronic is a member of CAN in Automation (CiA) and applies the CiA® 401 device profile to its products. This supports the spread and standardization of CANopen technology.

Advantages & features of MRS CANopen solutions

Several MRS CAN controllers are equipped with a CANopen stack and can therefore act as CANopen slaves. A higher-level controller, the so-called master, passes on the commands via CANopen to the MRS products. These execute the commands and thus do not require any independent programming. The configuration is carried out directly through the master, e. g. via Codesys.

MRS CANopen products with CiA® 401 device profile also enable simple integration into existing systems and thus simplify the expansion of networks. CANopen offers a high degree of flexibility in the configuration and adaptation of devices.

Visit us at the Agritechnica in Hannover at booth 17/E53 and learn more about our CANopen products and the entire portfolio of MRS Electronic.

You can also find all CANopen-capable MRS controllers at: <https://www.mrs-electronic.com/en/products/canopen>.

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About MRS Electronic GmbH & Co. KG:

MRS Electronic GmbH & Co. KG is part of the MRS Group and has been developing and producing cross-industry smart electronic products as well as customized hardware and software solutions for the vehicle industry at its main location in Rottweil for 20 years.

MRS Electronic's expertise lies primarily in the niche market of small controllers and products such as relays, gateways, controllers, CAN controllers and HMI systems. But the company also offers state-of-the-art charging solutions for electric vehicles in the field of e-mobility.

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