PCAN-MicroMod FD DR CANopen Digital 1 (IPEH-003100)

Product Overview

The PCAN-MicroMod FD DR CANopen Digital 1 is an I/O module for operation in CANopen and CANopen FD networks. The modern standard CANopen FD makes it possible to handle the increasing demand for data transmission from sensors, machines, and complex production plants. The module has a CAN FD interface as well as 8 digital inputs and 8 digital outputs. With its DIN rail casing and extended temperature range, the module is ideal for industrial environments.

The node ID and bit rates are set via rotary switches, eliminating the need for configuration software. Due to the support of both CANopen and CANopen FD standards, seamless integration into existing networks is guaranteed.

This product was developed in cooperation with Embedded Systems Academy, specialized in CANopen. It has been tested and certified for compliance by the CAN in Automation (CiA) association.

Specifications

- I/O module for CANopen® and CANopen FD®

- Communication profiles: CiA® 301 v4.2.0 and CiA® 1301 v1.1.0
- Device profiles: CiA® 401 v3.0.0 and CiA® 401-B/F v1.0.0
- High-speed CAN connection (ISO 11898-2)
- Selectable CANopen bit rates (Nominal): 20, 50, 125, 250, 500, 800, 1000 kbit/s
- Selectable CANopen FD bit rates: Nominal 250, 500, 800, 1000 kbit/s; Data 1, 2, 4, 5, 8, 10 Mbit/s
- NXP TJA1044GT CAN transceiver
- Galvanic isolation against power supply up to 500 V
- Configuration of bit rates and node ID via rotary switches
- 2 LEDs 'RUN' and 'ERROR' for status indication (CiA® DR 303-3)
- 8 digital inputs compliant with IEC 61131-2, Type 3; two groups of 4 inputs (sourcing or sinking)
- Galvanic isolation for input groups (0–3 and 4–7) up to 100 V
- 8 digital high-side outputs (500 mA load each)
- Thermal protection and short-circuit detection per output
- Open load detection in on-state and off-state per output
- LEDs for digital input/output status indication
- Connections for CAN, I/O, and power via 5-pole screw-terminal strips (Phoenix)
- Plastic casing, 22.5 mm width, for DIN rail (DIN EN 60715 TH35)
- Voltage supply: 8 to 36 V
- Operating temperature: -40 to +85 °C (-40 to +185 °F)

Ordering Information

Designation	Part No.
PCAN-MicroMod FD DR CANopen Digital1	IPEH-003100

Scope of Supply

- PCAN-MicroMod FD DR CANopen Digital 1 in DIN rail plastic casing with mating connectors
- CANopen EDS file
- Manual in PDF format