

PCAN-MicroMod FD

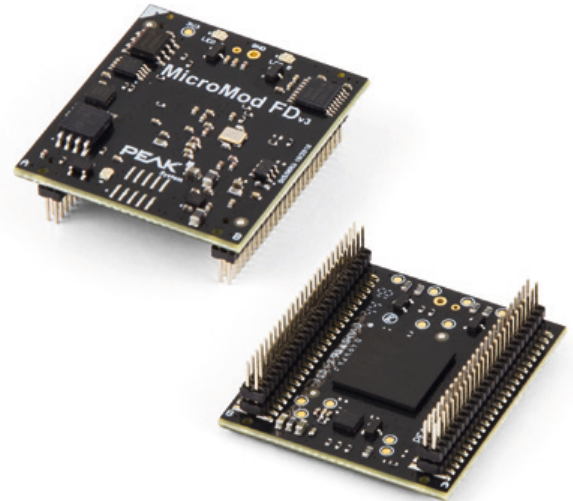
Universal Plug-in Module with I/O and CAN FD Interface

The PCAN-MicroMod FD is a small plug-in board with CAN and CAN FD connection on the one side and various physical inputs and outputs on the other side. The logical linking of both sides is done by the microcontroller NXP LPC54618. With the PCAN-MicroMod FD, electronics developers can easily integrate I/O functionality with CAN connection into their project.

PCAN-MicroMod FD products are configured with a free Windows software. In addition to simply mapping I/Os to CAN IDs, function blocks for processing the data are also available. The configuration created on the computer is transferred via the CAN bus to the PCAN-MicroMod FD which then runs as an autonomous CAN node.

For the PCAN-MicroMod FD, ready-to-use motherboards in an aluminum housing and an evaluation board for the development of own applications are available.

The PCAN-MicroMod FD can alternatively be operated with firmware for CANopen (FD). Furthermore, the use with a custom firmware is also possible. Licenses for the CANopen firmware are available from our partner Embedded Systems Academy. You can find detailed information about the operation modes and the configuration of PCAN-MicroMod FD products on page 42.



Specifications

- Plug-in board with 2 double pin strips of 50 pins each, 50 mil pitch (1.27 mm)
- NXP LPC54618 microcontroller with Arm® Cortex® M4 core
- High-speed CAN connection (ISO 11898-2)
 - Complies with CAN specifications 2.0 A/B and FD
 - CAN FD bit rates for the data field (64 bytes max.) from 20 kbit/s up to 10 Mbit/s
 - CAN bit rates from 20 kbit/s up to 1 Mbit/s
 - Microchip MCP2558FD CAN transceiver
- 8 analog inputs
 - Measuring range unipolar 0 to 3 V
 - Resolution 12 bit, sample rate 1 kHz
- 8 digital inputs
- 8 digital outputs
- 2 frequency outputs
- Selective configuration of up to 16 devices in a CAN network based on the module ID
- Voltage supply 3.3 V
- Dimensions: 33 x 36 mm
- Extended operating temperature range from -40 to +85 °C (-40 to +185 °F)

Ordering information

Designation	Part No.
PCAN-MicroMod FD	IPEH-003080

Scope of supply

- PCAN-MicroMod FD
- PCAN-MicroMod FD Configuration for Windows (details on page 109)
- Windows development package with GCC ARM Embedded, flash program, and programming examples
- Manual in PDF format

Requirements

- The configuration requires a PEAK CAN interface

Accessories: Pin adapter for 100 mil pitch.