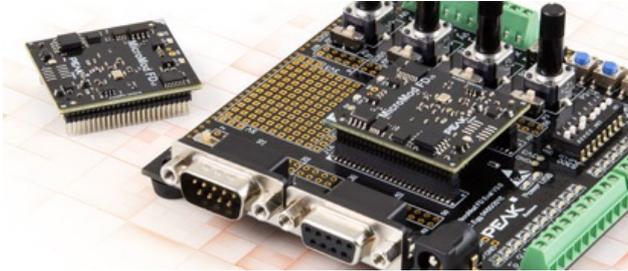


# CAN Newsletter Online

CAN FD CUSTOM HARDWARE

## *It starts with the processor and evaluation board*

With the PCAN-Micromod FD, Peak-System offers a universal solution for the integration of a CAN FD interface and I/O functionality into custom hardware.



(Source: Peak-System)

Developers can plug the CPU (central processing unit) module into their motherboard and configure it with the PCAN-Micromod FD configuration Windows software included in the scope of supply. The configurations are transferred to the PCAN-Micromod FD via the CAN network. Several modules can be configured independently of each other in a CAN network. In addition to mapping the signals to CAN messages, the software enables a variety of operations and processing functions for analog and digital I/O signals. Once the configuration has been transferred, the PCAN-Micromod FD forms an autonomous CAN node with the motherboard that can forward the information from sensors, actuators, and switches via CAN.

Together with the product, the company is launching an evaluation board onto the market that is intended to facilitate the development of an individual motherboard. With the evaluation board, users can access via taps, screw terminals, switches, and potentiometers all resources of the attached PCAN-Micromod FD and test configurations or circuits.

### **PCAN-Micromod FD**

It is a small plug-in board with Classical 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 micro-controller NXP LPC54618. Electronics developers can integrate I/O functionality with CAN connection into their project. The product is configured using the supplied Windows software. In addition to simple I/O mapping to CAN IDs, function blocks are also available for processing the data. The configuration created on the computer is transferred via the CAN network to the PCAN-Micromod FD which then runs as an independent CAN node. Multiple modules can be configured independently on a CAN. 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.

### **PCAN-Micromod FD evaluation board**

This product is an evaluation board for the PCAN-Micromod FD and allows the conception and development of own circuits with CAN connection and I/O functionality. Via pick-offs, screw terminals, switches, and potentiometers, the user can access the resources of the attached PCAN-Micromod FD and check configurations or test circuits. The configuration is done with a supplied Windows software which transfers the configuration data to the module via CAN. The optionally available evaluation kit also includes the CAN interface and cable required for this purpose.

The product can now be purchased individually or together with the evaluation board. Furthermore, a kit is available that contains a CAN FD interface for the USB port and a CAN cable in addition to the processor and evaluation board. The company plans to release ready-to-use motherboards for specific applications by the end of the year.

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