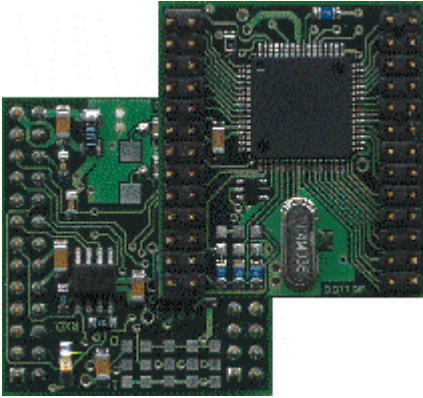


PCAN-MicroMod



Analog and digital I/O-miniMODUL for the CAN-Bus
Configurable without Embedded Programming Skills

The PCAN-MicroMod is a subminiature (32 x 36 mm) insert-ready Single Board Computer and it requires a single regulated 5 VDC power supply. The integrated firmware allows for simple configuration of the target system with a Windows utility program. Thus no embedded programming skills are required. The configuration data is sent to the module via CAN. Up to 64 PCAN-MicroMods can be integrated in a single CAN network. Each individual module can be addressed over the bus enabling to read, modify and store its configuration data.

Various carrier and expansion boards allow for easy integration of the PCAN-MicroMod into automation control and automotive applications. An optional evaluation board facilitates start up and development of user designed carrier boards.

The included Windows software makes the following module configuration options available to the user:

The digital input levels can send periodically or following a signal level transition (rising edge, falling edge or both transitions).

Digital inputs can be logically connected (AND, OR, XOR, NAND, NOR, XNOR). The results are then displayed on the desired digital outputs and/or sent over the CAN bus.

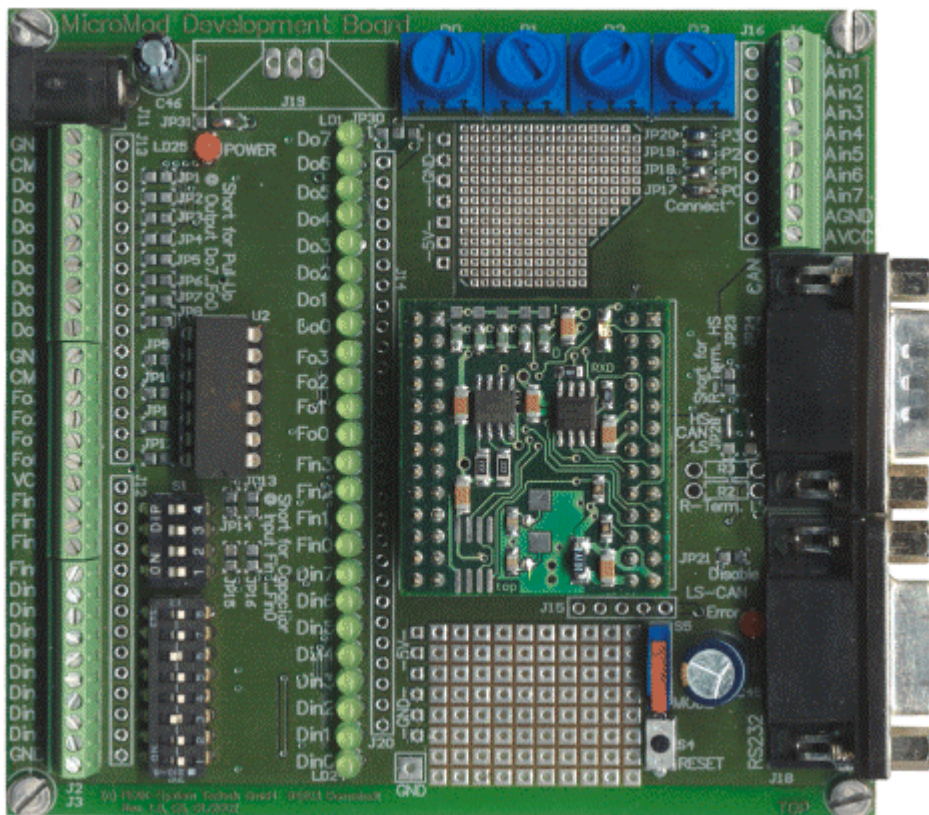
Analog values can be converted by Scale-value and Offset-value and then processed further.

Adaptation of analog values is possible via characteristic curves. Direct conversion of analog inputs to CAN-IDs is supported. The rotary-switches (based on the rotary-encoder principle), which are standard in automotive applications, are supported directly.

The firmware integrated on the board can be replaced with user designed software. A corresponding C Compiler is available for free from the microcontroller manufacturer.

The optional Evaluation Board offers the following features:

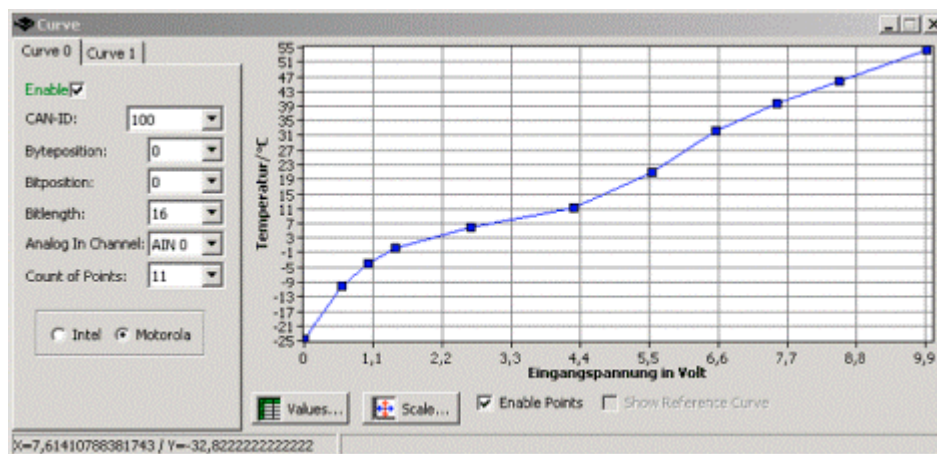
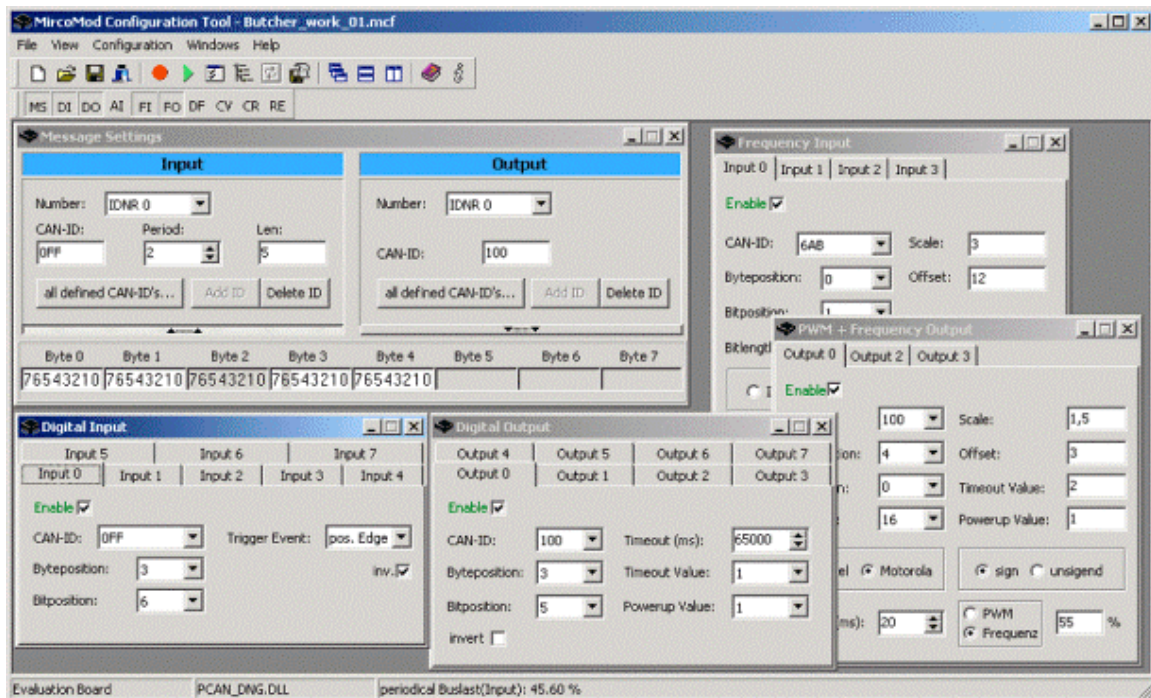
- Open-Collector output drivers for the digital outputs and CMOS PWM outputs.
- Protected digital inputs + LED
- Potentiometers for analog inputs
- (Can be switched off via jumpers), low pass + resistive voltage divider for voltages > 5 V
- Serial interface for Flash download or for user implementation
- Optional low-speed CAN transceiver
- Power Adapter
- Dimensions: approx. 100*100 mm²

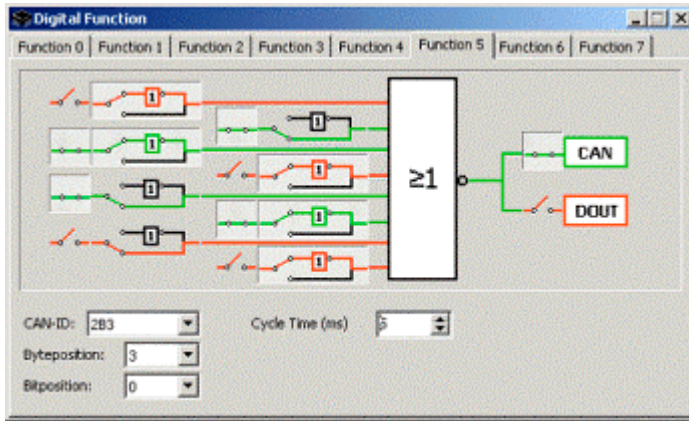


MicroMod Evaluation-Board (with inserted PCAN-MicroMod module)

MicroMod Technical Specifications:

- 8 analog inputs, 10-bit, Vref 5 V
- 8 digital inputs
- 8 digital outputs
- 4 PWM/frequency outputs, range 1 Hz-20 kHz
- dimensions 32 mm x 36 mm
- configurable via Windows PC software
- Controller Fujitsu MB90-F497





Screen Captures from the Configuration Software