PCAN-MicroMod FD Analog 1 (IPEH-003087) – Detailed Data Sheet

Product Description

The PCAN-MicroMod FD Analog 1 is a configurable CAN FD module designed with a focus on analog inputs and outputs. It consists of a PCAN-MicroMod FD plug-in board paired with a ready-to-use motherboard that provides the necessary peripherals for analog signal processing. Connections for CAN, I/O, and power are made via spring terminal connectors, and all inputs/outputs are equipped with protective circuitry.

The configuration is done using free Windows software, allowing mapping of I/Os to CAN IDs and the use of function blocks for data processing. Once configured, the module operates autonomously as a CAN node. It can also be operated with CANopen (FD) firmware or custom firmware. Licenses for CANopen firmware are provided by Embedded Systems Academy.

Technical Specifications

Feature	Specification
Board	PCAN-MicroMod FD plug-in board mounted on motherboard
CAN Connection	High-speed CAN (ISO 11898-2), CAN 2.0 A/B and FD compliant
CAN FD Bit Rates	20 kbit/s up to 10 Mbit/s (64-byte data field)
Classic CAN Bit Rates	20 kbit/s up to 1 Mbit/s
CAN Termination	Switchable

Frequency Outputs	2 Low-side switches, adjustable 0–20 kHz
Analog Input (Voltage Monitoring)	1 channel, up to 30 V, 12-bit resolution
Analog Inputs	8 channels, 16-bit resolution, ±2.5V/±5V/±10V/±20V adjustable range
Additional Analog Inputs	4 channels, 12-bit resolution, 0–10 V range
Analog Outputs	4 channels, 12-bit resolution, adjustable 0–5 V or 0–10 V
Digital Inputs	4 inputs, configurable pull-up or pull-down
Module ID	4-bit rotary coding switch
Status LEDs	3 LEDs
Casing	Aluminum with spring terminal connectors
Operating Voltage	8–30 V
Operating Temperature	-40 to +85 °C (-40 to +185 °F)

Scope of Supply

• PCAN-MicroMod FD module

• PCAN-MicroMod FD motherboard in aluminum casing with mating connectors

• PCAN-MicroMod FD Configuration software for Windows

• Windows development package with GCC ARM Embedded, flash program, and examples

• PDF manual

Requirements

• PEAK CAN interface required for configuration

Ordering Information

• PCAN-MicroMod FD Analog 1 – Part No.: IPEH-003087