

PCAN-MicroMod FD ECU (IPEH-003085)



Product Overview

The PCAN-MicroMod FD ECU is a universal, configurable control unit designed for the integration of custom accessories in automotive applications. It provides a CAN FD connection along with a mix of analog and digital inputs and outputs. With its robust IP67 casing and automotive-grade connectors, it is suitable for use in utility and heavy-duty vehicles under harsh conditions.

PCAN-MicroMod FD products are configured with free Windows software. In addition to simple mapping of I/Os to CAN IDs, function blocks for processing data are available. Once configured, the settings are transferred via CAN bus, allowing the module to run as an autonomous CAN node.

Specifications

- • Module with integrated PCAN-MicroMod FD
- • High-speed CAN connection (ISO 11898-2)
- • Complies with CAN specifications 2.0 A/B and FD
- • CAN FD bit rates for data field (64 bytes max.): 40 kbit/s up to 10 Mbit/s
- • CAN bit rates: 40 kbit/s up to 1 Mbit/s
- • Wake-up by CAN bus or separate input
- • 4 digital inputs (pull-up or pull-down configurable)
- • 8 digital outputs with High-side switches (2 outputs 5 A, 6 outputs 2 A)
- • 4 digital outputs alternatively usable as inputs or for reading back output level
- • 8 analog inputs, 16-bit resolution, ranges: ± 2.5 V, ± 5 V, ± 10 V, ± 20 V
- • 4 analog inputs alternatively usable as analog outputs, 12-bit resolution, ranges: 0–5 V or 0–10 V

- • 2 frequency outputs, low-side switches (3 A), 0–20 kHz, alternatively usable as analog inputs (0–60 V)
- • Connections for CAN, I/O, and power via two 20-pole automotive connectors (Molex MX150)
- • Plastic casing with IP67 protection and flange
- • Operating voltage: 8 to 32 V (12 V and 24 V systems)
- • Operating temperature: -40 to +85 °C (-40 to +185 °F)
- • E1 type approval

Ordering Information

Designation	Part No.
PCAN-MicroMod FD ECU	IPEH-003085

Scope of Supply

- • PCAN-MicroMod FD ECU including mating connectors
- • PCAN-MicroMod FD Configuration software for Windows
- • Manual in PDF format

Requirements

The configuration requires a PEAK CAN interface. Version with galvanic isolation of the CAN channel available on request.