PCAN-Ethernet Gateway FD DR (IPEH-004012) – Detailed Data Sheet

Product Description

The PCAN-Ethernet Gateway FD DR from PEAK-System allows access to both classic CAN and modern CAN FD buses via an IP network. It enables CAN buses to be linked over IP using multiple devices by encapsulating CAN frames in TCP or UDP packets. The device features two CAN FD interfaces (up to 10 Mbit/s) and a high-speed LAN interface. Housed in a DIN rail plastic casing, it supports industrial applications with extended temperature range and fan-assisted cooling. Configuration is handled via a web interface or JSON API.

Technical Specifications

Feature	Details
CAN Channels	Two High-speed CAN channels (ISO 11898-2)
CAN Compliance	CAN 2.0 A/B and CAN FD
CAN FD Bit Rates	20 kbit/s up to 10 Mbit/s (data field, 64 bytes max.)
CAN Bit Rates	20 kbit/s up to 1 Mbit/s
CAN Transceiver	Microchip MCP2558FD

Galvanic Isolation	Up to 500 V between CAN channels, RS-232, and power supply
Connectors	4-pole screw terminal blocks for CAN, RS-232, and power (Phoenix)
LAN Interface	10/100/1000 Mbit/s via RJ-45 with status LEDs
Data Transmission	TCP or UDP
Configuration	Web interface or JSON interface
Software Update	Via web interface
Reset	Reboot or restore previous version via reset button
Casing	Plastic casing (45.2 mm wide) for DIN rail mounting (DIN EN 60715 TH35)
LED Indicators	Device status and power supply
Additional Ports	PCI Express Mini slot, USB port, and RS-232 (reserved for future use)
Power Supply	8 to 30 V
Cooling	Fan for active cooling above temperature threshold
Operating Temperature	-40 to +70 °C (-40 to +158 °F)

Scope of Supply

- PCAN-Ethernet Gateway FD DR in DIN rail plastic casing

- Mating connectors for both CAN channels, RS-232, and power supply

- RJ-45 network patch cord (2 m)

- Manual in PDF format

- Printed quick start guide

Accessories (Optional)

PCAN-Adapter D-Sub for DR Products (details on page 128 of the catalog)