PCAN-Diag FD (IPEH-003069) – Detailed Data Sheet

Product Description

The PCAN-Diag FD is a mobile, handheld diagnostic device for CAN and CAN FD buses. It enables analysis on both the protocol and physical layers, supporting CAN 2.0 and CAN FD communication. Diagnostic capabilities include message transmission, reception, symbolic representation, recording, and physical signal inspection using an oscilloscope function.

Technical Specifications

Feature	Specification
CAN Interface	High-speed CAN (ISO 11898-2), supports CAN 2.0A/B and CAN FD (ISO/Non-ISO)
CAN FD Bit Rate	20 kbit/s to 12 Mbit/s
Classic CAN Bit Rate	20 kbit/s to 1 Mbit/s
Transceiver	Microchip MCP2558FD
Connector	D-Sub 9-pin (CiA® 106)
Display	800 x 480 pixels, supports landscape/portrait mode
External Display	Via micro HDMI (800 x 600 pixels)
Power Supply	Internal rechargeable battery or external power adapter
Charging	Through external supply; optional quick charging station (IPEH-003068)
Storage	Internal memory card, USB mass storage functionality
Control	Push dial + 4 buttons
Operating Temperature	0 to 50 °C (32 to 122 °F)

Protocol-Level Functions

• Real-time display and symbolic interpretation of CAN/CAN FD messages

• CAN trace recording and playback

• Manual transmission of individual frames or sequences

• Automatic or manual bit rate selection

• Listen-only and silent startup modes

• Bus load measurement and error frame analysis

• Termination and voltage measurement at D-Sub connector

• Symbol file support via PCAN-Symbol Editor

Oscilloscope Features

• Two independent channels sampling CAN-H and CAN-L up to 100 MHz

• Frame decoding, trigger options (e.g. CAN errors, bit rate switch)

• Report generation, screenshot and CSV export, 1 MSample depth

• Measurement resolution: up to 10 ns

Software and Optional Add-ins

• PCAN-Diag FD Editor: Device and project configuration tool

• PEAK-Converter: Trace format converter

• J1939 Add-in (optional): Decodes J1939 traffic, PG/SP definitions, DTC display, multi-packet decoding

Scope of Supply

• PCAN-Diag FD device

• Power supply (Euro/US/UK plugs), USB cable, micro HDMI to DVI cable

• PCAN-Diag FD Editor, PCAN-Symbol Editor, PEAK-Converter software (Windows)

• Shockproof box, printed quick start guide, PDF manual

• Optional: Charging station (IPEH-003068)

Ordering Information

PCAN-Diag FD – Part No.: IPEH-003069

PCAN-Diag FD with Charging Station – Part No.: IPEH-003069 + IPEH-003068

PCAN-Diag FD J1939 Add-in – Part No.: IPES-004069

J1939 Add-in Maintenance Extension (2 years) – Part No.: IPES-004069-Ext