

PCAN-LIN (IPEH-002025 / 002029) – Detailed Data Sheet



Product Description

The PCAN-LIN module by PEAK-System acts as a versatile gateway enabling communication between CAN, LIN, and RS-232 bus systems. It comes with firmware supporting data exchange between these different network types. With configuration software, the module can be set up in various modes. For example, acting as a LIN master, it can request data and forward it to CAN and/or RS-232 interfaces. Data can also be routed between CAN and LIN with configurable ID offsets.

Technical Specifications

Feature	Specification
Gateway Functions	RS-232 ↔ LIN, CAN ↔ LIN, RS-232 ↔ CAN (limited bandwidth)
CAN Bit Rate	Up to 1 Mbit/s
CAN Specification	Complies with CAN 2.0 A/B
LIN Bit Rate	1 to 20 kbit/s
LIN Frame Support	LIN 1.x and 2.x frames
LIN Operation	LIN master or slave mode
LIN Slave Simulation	Data can be dynamically changed via CAN frames
LIN ID Scheduler	User-defined list with limited entries
Frame Initiation	Individual LIN frames can be sent via CAN or RS-232
Supply Voltage	9 to 30 V
Operating Temperature	-40 to +85 °C (-40 to +185 °F)
CAN Transceiver Options	High-speed (ISO 11898-2) or Low-speed (ISO 11898-3)
Galvanic Isolation	Up to 1 kV between RS-232 and CAN/LIN (High-speed CAN only)

RS-232 Connector Pin Assignment (Female D-Sub)

Pin	Assignment
1	Not connected

2	TxD (RS-232 level)
3	RxD (RS-232 level)
4	Not connected
5	GND
6	Not connected
7	Not connected
8	Not connected
9	Not connected

CAN/LIN Connector Pin Assignment (Male D-Sub)

Pin	Assignment
1	VBat 9–30V (I _{max} ~130 mA)
2	CAN-L
3	GND
4	LIN data
5	Not connected
6	GND
7	CAN-H
8	Not connected
9	Not connected

Scope of Supply

- PCAN-LIN module in plastic casing
- PCAN-LIN Config software for Windows 11/10
- PDF manual
- Optional LIN connection cable

Ordering Information

- PCAN-LIN High-speed CAN – Part No.: IPEH-002025
- PCAN-LIN High-speed CAN (Opto-decoupled) – Part No.: IPEH-002029