

## PCAN-Repeater DR (IPEH-004038) – Detailed Data Sheet



### Product Description

The PCAN-Repeater DR from PEAK-System is a passive CAN and CAN FD repeater that enables galvanic isolation of up to 5 kV within a High-speed CAN bus. It decouples both CAN ports from each other and from the power supply, forwarding all CAN messages (including error frames) transparently. With DIN rail mounting and industrial temperature range support, the device is suitable for industrial use and applications requiring segment isolation or long stub lines.

Note: The PCAN-Repeater DR does not extend the total length of the CAN bus. Signal delay reduces the physical length of the CAN network.

### Technical Specifications

Feature	Details
CAN Ports	Two High-speed CAN ports (ISO 11898-2)
Bit Rates	5 kbit/s up to 1 Mbit/s
CAN Compliance	CAN 2.0A (11-bit ID) and 2.0B (29-bit ID)
CAN Transceiver	NXP PCA82C251
CAN FD Support	Data bit rates up to 4 Mbit/s, nominal bit rates up to 1 Mbit/s

Connectors	4-pin screw terminal block (Phoenix) for CAN and power
LED Indicators	CAN bus load and error indicators (CAN 2.0 A/B only)
Termination	Each CAN port can be selectively terminated
Galvanic Isolation	Up to 5 kV per IEC 60601-1 between CAN ports and power
Casing	Plastic casing (22.5 mm wide) for DIN rail mounting (DIN EN 60715 TH35)
Power Supply	8 to 30 V
Operating Temperature	-40 to +85 °C (-40 to +185 °F)

### Scope of Supply

- PCAN-Repeater DR in DIN rail plastic casing
- 3 mating connectors for power supply and CAN connections
- Manual in PDF format

### Accessories (Optional)

PCAN-Adapter D-Sub for DR Products