PLIN-USB – Detailed Data Sheet

Overview

The PLIN-USB enables a Windows computer to connect to a LIN network via USB. It supports all LIN specifications up to version 2.2 according to ISO 17987 and can be operated in both master and slave modes. It includes PLIN-View Pro monitoring software and a programming interface (PLIN-API) for LIN development.

Technical Specifications

- USB Interface: Full-Speed (compatible with USB 1.1, 2.0, and 3.0)

- LIN Protocol: ISO 17987 compliant

- LIN Specifications: Supports up to version 2.2

- Bit Rate: 1 kbit/s to 20 kbit/s

- Modes: LIN Master or Slave (1 ms master task resolution)

- Auto Detection: Bit rate, frame length, checksum type

- Scheduler: Supports unconditional, event, and sporadic frames

- Bus Connection: 9-pin D-Sub

- Short-circuit protection: Against transceiver supply and ground

- Transceiver: NXP TJA1028T or TI TLIN1028D

- Isolation: Galvanic isolation up to 500 V on LIN connection

- LED: Interface status indicator

- Power Supply: 5 V DC via USB, 6–28 V DC via D-Sub (pin 9)

- Temperature Range: -40 °C to +85 °C (-40 °F to +185 °F)

D-Sub Pin Assignments
1: Not connected
2: Not connected
3: Not connected
4: LIN
5: GND
6: GND
7: Not connected
8: Not connected
9: VBAT

Scope of Supply
- PLIN-USB in plastic casing

- LIN drivers for Windows 11 (x64/ARM64), 10 (x64), and Linux

- PLIN-View Pro for Windows

- PLIN-API programming interface

- User manual in PDF format

Accessories (Optional)
- LIN Connection Cable for PC LIN Interfaces (details on page 138)