

PLIN-USB

LIN Interface for USB

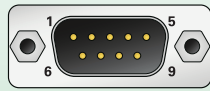
The PLIN-USB enables the connection of a Windows computer to a LIN network via USB. The LIN interface supports the LIN protocol according to the standard ISO 17987 and complies with all LIN specifications up to version 2.2. The interface can be operated as a master or a slave.

The monitor software PLIN-View Pro and the PLIN programming interface for the development of applications with LIN connection are included in the scope of supply.



Specifications

- ___ LIN interface for the USB connection (Full-Speed mode, compatible with USB 1.1, USB 2.0, and USB 3.0)
- ___ LIN connection (ISO 17987)
- ___ Compliant with all LIN specifications (up to version 2.2)
- ___ Bit rates from 1 kbit/s up to 20 kbit/s
- ___ Can be used as a LIN master or slave (1 ms master task resolution)
- ___ Automatic bit rate, frame length, and checksum type recognition
- ___ Autonomous scheduler with support for unconditional, event, and sporadic frames
- ___ LIN bus connection via D-Sub, 9-pin
- ___ LIN connection short-circuit-proof against transceiver supply and ground
- ___ NXP LIN transceiver TJA1028T or TI LIN transceiver TLIN1028D
- ___ Galvanic isolation on the LIN connection up to 500 V
- ___ Indicator LED for interface status
- ___ Voltage supply 5 V DC via USB port
- ___ Transceiver supply 6 to 28 V DC via D-Sub, pin 9
- ___ Extended operating temperature range from -40 to +85 °C (-40 to +185 °F)

D-Sub	Pin	Pin assignment
	1	Not connected
	2	Not connected
	3	Not connected
	4	LIN
	5	GND
	6	GND
	7	Not connected
	8	Not connected
	9	V _{BAT}

Ordering information

Designation	Part No.
PLIN-USB	IPEH-004052

Scope of supply

- ___ PLIN-USB in plastic casing
- ___ LIN device drivers for Windows 11 (x64/ARM64), 10 (x64), and Linux
- ___ LIN monitor PLIN-View Pro for Windows (details on page 95)
- ___ Programming interface PLIN-API for developing applications with LIN connection (details on page 93)
- ___ Manual in PDF format

Accessories: LIN Connection Cable for PC LIN Interfaces optionally available (details on page 124).