

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 105)
- Programming interface PLIN-API for developing applications with LIN connection (details on page 103)
- Manual in PDF format

Accessories: LIN Connection Cable for PC LIN Interfaces optionally available