

# Tlog1002

## Recording for 2 channel CAN FD/LIN bus



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### Classic Application:

- Road Experiment Data Collection
- High-altitude, High-temperature, High-humidity Tests
- Bench Testing and Calibration

## Feature Overview

Tlog1002 is a multi-channel CAN (FD) bus, LIN bus interface logger device launched by TOSUN. It supports a maximum CANFD bus rate of 8 Mbps and a LIN bus rate of 0 to 200k bps. It features multiple built-in digital and analog I/O interfaces, facilitating various signal measurements and system integrations. The product uses a high-speed USB 2.0 interface to connect with a PC and comes with a built-in 64GB storage capacity. Its driver-free design for Windows systems ensures compatibility.

Collaborating with the powerful TSMaster software, it supports loading DBC and ARXML database files, allowing convenient monitoring, analysis, and simulation of CAN bus data. Additionally, it provides support for functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration, among others.

It can be used with secondary development APIs for Windows and Linux, supporting various development environments such as C++, C#, LabView, Python, facilitating integration into diverse testing systems, ensuring efficiency and ease of use.

## Characteristics

- Hardware message timestamping at microsecond (us) level, meeting advanced requirements
- High-speed USB 2.0 interface, driver-free design for Windows, ensuring system compatibility
- CAN channel isolation up to DC 2500V
- Automotive-grade design, supporting dbc, a2l, blf, and asc files
- Support for blf and asc format data recording and offline/online replay
- Built-in script editing supporting virtual and semi-physical simulation. Support for UDS diagnostics and CCP calibration
- Compatible with Tosunai's CAN/LIN Flash Bootloader series software
- Secondary development interfaces available for Windows and Linux systems
- Unique LIN message free transmission mode, reducing LIN bus development and debugging thresholds
- Independent usage without PC connectivity
- Support for GPS functionality.

## Specification

Channel	2*CANFD/2 *LIN
PC End	High-speed USB 2.0 interface
CAN/LIN interface	DB9
Driver	Windows system plug-and-play design, system compatibility
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
CAN	Supports CAN 2.0A, B protocols, compliant with ISO11898-1, baud rate 5Kbps—1Mbps
CAN FD	Supports both ISO and non-ISO standard CAN FD, baud rate 100Kbps—8Mbps
LIN	Supports LIN1.3 and 2.x, baud rate 0—20Kbps
Timestamp Precision	1us hardware timestamp accuracy
Messages sent per second	Plastic enclosure material
Messages received per second	Maximum 20,000 frames per second
Isolation	Maximum 20,000 frames per second
Power supply	CAN channels isolated up to DC 2500V, electrostatic level contact discharge ±8KV
Operating temperature	USB-powered or external 9-36V power supply
Enclosure material	-40°C to 80°C

\*Single channel with 1Mbps, 0-byte data field situation.

## Ordering Information

Product Name	Model Number	Function Description
Network Device	Tlog1002	2 Channels CAN FD, 2 Channels LIN Recorder, GPS, 64G eMMC

## Shipping list

- Tlog1002 device and USB Cable
- TLog Power Cable - Banana plug
- TLog Power Cable - Cigarette Lighter Adapter
- GPS Antenna
- DB9 female connector to 9 banana plugs LIN bus cable
- DB9 Solderless Connector (Female)

## Pin Definitions

• Left: CANFD 1/2 • Right: LIN 1/2 I/O

