

# Tlog1002

## 2 channel CAN FD/LIN bus datalogger



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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 ( $\mu$ s) 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
- Supports UDS diagnostics and CCP/XCP calibration
- Compatible with Tosunai's CAN/LIN Flash Bootloader series software
- Supports development interfaces available for Windows and Linux systems
- Unique LIN message free transmission mode, reducing IN bus development and debugging thresholds
- Independent usage without PC connectivity
- Support for GPS functionality

## Specification

Channel	2 x CAN FD/2 x LIN
PC End	High-speed USB 2.0 interface
CAN/LIN End	DB9 interface
Driver	Driver-free design for Windows and Linux systems, ensuring 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 standard, with baud rate 125Kbps-1Mbps
CAN FD	Supports CAN FD that complies with both ISO and non-ISO standards, with baud rates from 100Kbps to 8Mbps
LIN	Supports LIN 1.3 and 2.x, baud rate 0-20Kbps
Timestamp	1 $\mu$ s hardware message timestamp
Messages Sent per Second	Maximum 20,000 frames/second
Messages Received per Second	Maximum 20,000 frames/second
Isolation	CAN channels isolated up to DC 2500V, with ESD protection of $\pm$ 8KV (contact discharge)
Power Supply	USB-powered or external 9-36V power supply
Operating Temperature	-40°C to 80°C
Casing Material	Aluminum

\*Single channel at 1 Mbps with a 0-byte data field

## 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 Plug
- Beidou Second Generation GPS Antenna
- DB9 Female 9-Pin Banana Plug Signal Cable
- DB9 Solderless Connector (Female)

## Pin Definitions

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

