

Tlog1004

4 channel CAN FD
2 channel LIN bus datalogger typical application



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Classic Application:

- Road experiment data collection
- Suitable for Automotive Testing in High Temperature, High Pressure, and High Altitude Conditions
- Bench test, and calibration

Feature Overview

Tlog1004 is a multi-channel CAN FD bus and LIN bus interface logger device. It supports a maximum CAN FD bus rate of 8 Mbps and LIN bus rates from 0 to 200 kbps. The device is equipped with 3 digital inputs and 2 digital outputs, facilitating various signal measurements and system integration. It connects to a PC via a high-speed USB 2.0 interface and has built-in 64GB storage capacity. The driver-free design ensures system compatibility with Windows.

Optional bus analyzer functionality is available. When activated, the device can function as a 4 CAN FD and 2 LIN bus analyzer in conjunction with TSMaster software. It supports loading DBC and ARXML data base files for convenient monitoring, analysis, and simulation of CAN bus data, as well as ECU flashing. Activation of features such as UDS diagnostics, CCP/XCP calibration, and more is also possible. The device supports secondary development APIs for Windows and Linux, compatible with various development environments such as C++, C#, LabView, Python, etc., making it easy to integrate into various testing systems. It is efficient and user-friendly.

Characteristics

- Supports both ISO and non-ISO standard CAN FD Baud rates from 100 Kbps to 8 Mbps
- Internal real-time clock
- Built-in GPS, or external GPS synchronization
- 64GB eMMC storage built-in
- LED lights display communication status
- Configurable triggering methods
- Data exportable to PC via USB
- Direct export in BLF format
- Exported BLF files can be replayed directly in TSMaster software

Specification

PC End	High-speed USB 2.0 interface
CAN End	DB9 interface (partially other interfaces)
Driver	Windows system plug-and-play design, excellent system compatibility, also supports Linux
Secondary Development*	Supports Python, LabView, C#, C++, etc., with provided examples for some
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
CAN	Supports CAN 2.0A, B protocols, complies with ISO 11898-1 standard, baud rates from 5 Kbps to 1 Mbps
CAN FD	Supports both ISO and non-ISO standard CAN FD, baud rates from 100 Kbps to 8 Mbps
Digital Input	Sampling frequency of 1 KHz
Digital Output	Output frequency of 1 KHz
Timestamp Precision	1us hardware timestamp accuracy
Isolation	Channel DC 2500V isolation, electrostatic discharge contact discharge ±8KV
Terminal Resistance	CAN built-in 120-ohm terminal resistor, software configurable
Power Supply	USB-powered for use as an analyzer, DC 9-36V for use as a recorder
Operating Temperature	-40°C to 85°C

* Single : Upon choosing to activate the bus analyzer function, support will be enabled

Ordering Information

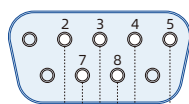
Product Name	Model Number	Function Description
Network devices	Tlog1004	4 channel CAN FD, 2 channel LIN pure bus recorder.
TOSUN development and Testing Software	TSMaster/Bus Analysis	Activate bus simulation and analysis function.
TOSUN development and Testing Software	TSMaster/UDS	Activate UDS diagnostic function, support ODX file import, etc.
TOSUN development and Testing Software	TSMaster/CCP/XCP	Activate CCP/XCP calibration function

Shipping list

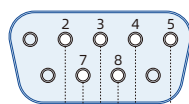
- Tlog1004
- USB cable
- GPS antenna
- Tlog1004 dedicated power cable

Pin definition

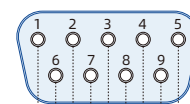
• Left: CAN FD 2 / 4 • Middle: CAN FD 1 / 3 • Right: CAN FD 1 / 2



5. → CANFD_Shield
4. → CANFD4_Low
8. → CANFD4_High
3. → CANFD_GND
7. → CANFD2_High
2. → CANFD2_Low



5. → CANFD_Shield
4. → CANFD3_Low
8. → CANFD3_High
3. → CANFD_GND
7. → CANFD1_High
2. → CANFD1_Low



5. → Digital_Out2
9. → VBAT
4. → Digital_Out1
8. → LIN1
3. → GND
7. → Digital_In3
2. → Digital_In2
6. → LIN1
1. → Digital_In1