TOSUN

Tlog1004

4 channel CAN CAN FD
2 channel LIN bus datalogger

Classic Application:

- CAN/CAN FD/LIN message logging
- GPS data acquisition
- Road test data acquisition

Feature Overview

The Tlog1004 is a multi channel CAN/CAN FD and LIN bus logger launched by TOSUN. It features 4 channels of CAN FD and 2 channels of LIN, with a maximum CAN FD bus rate of 8 Mbps and a LIN bus rate of 0 to 20 kbps. Additionally, it includes multiple digital and analog I/O interfaces for various signal measurements and system integration. The product connects to a PC via USB 2.0 and comes with 64GB built-in storage. Its driverless design for Windows and Linux systems offers excellent system compatibility.

With the powerful TSMaster software, it supports loading DBC and ARXML database files, making it very convenient to monitor, analyze, and simulate CAN bus data, and it also supports functions such as UDS diagnostics, ECU flashing, CCP/XCP calibration, etc.

The secondary development APIs for Windows and Linux can support various development environments such as C++, C#, LabView, Python, etc., making it highly efficient and easy to use, and is convenient to integrate into various testing systems.

Characteristics

- µs (microsecond) level hardware message timestamps to meet advanced requirements
- CAN channel DC 2500V isolation
- Supports blf format data recording and offline/ online playback
- Supports UDS diagnostics and CCP/XCP calibration
- Supports UDS based Bootloader flashing
- Supports secondary development interfaces for Windows and Linux systems
- Capable of loading all paid licenses for TSMaster
- Can be used independently without a PC
- Supports GPS function
- Built in 64GB eMMC storage

Specification

Channel	4 x CAN FD / 2 x LIN / 2 x DIDO / 1 x AI
PC Interface	USB 2.0
CAN/LIN Interface	DB9
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 2.0 A, B protocols, compliant with ISO11898-1 standard, with baud rate 125 Kbps to 1 Mbps
CAN FD	Supports CAN FD that complies with both ISO and non ISO standards, with a maximum baud rates of 8 Mbps
LIN	Supports LIN 1.3/2.0/2.1/J2602, baud rate 0 to 20 Kbps
Timestamp Accuracy	1 µs hardware message timestamp
Relay type	Magnetic latching relay
Messages Sent per Second*	Up to 20,000 frames per second
Messages Received per Second*	Up to 20,000 frames per second
Isolation	CAN channel DC 2500V isolation, with an electrostatic discharge level of ±4 KV for contact discharge and ±8 KV for air discharge
Power Supply	USB power supply or external 9 to 32V
Power Consumption	3 W
Casing Material	Metal
Dimension	Approx. 108 x 96 x 35 mm
Weight	Approx. 263 g (without packaging)/Approx. 852 g (with packaging)
Operating Temperature	-20℃ ~ 60℃/-40℃ ~ 80℃ (no battery)
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	Keep away from corrosive gases

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

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Ordering Information

Product Name	Model Number	Function Description
Network devices	Tlog1004	Multi-channel CAN/CAN FD/LIN bus datalogger, GPS, I/O

Shipping list

- Tlog1002 device
- USB Cable
- Cigarette lighter power cable
- DB9 female to dual male signal cable (CAN)
- GPS antenna
- DB9 male
- DB9 male to dual banana plugs

Pin definition

- Left: CAN FD 2/4　• Right: CAN FD 1/3
- Bottom left: LIN 1/2, I/O

5. CAN FD_Shield
4. CAN FD 4_Low
8. CAN FD 4_High
3. CAN FD_GND
7. CAN FD 2_High
2. CAN FD 2_Low

5. CAN FD_Shield
4. CAN FD 3_Low
8. CAN FD 3_High
3. CAN FD_GND
7. CAN FD 1_High
2. CAN FD 1_Low

5. Digital_Out 2
9. VBAT
4. Digital_Out 1
8. LIN 2
3. GND
7. Analog_In 1
2. Digital_In 2
6. LIN 1
1. Digital_In 1

DB9 to 3 LIN adapter cable

USB Cable

DB9 male

DB9 adapter cable
(CAN)

GPS antenna

Lighter Power Cable