

TC1026





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Feature Overview

TC1026 is a multi-channel CAN FD and LIN bus interface device introduced by TOSUN. It supports a maximum CAN FD bus rate of 8 Mbps and LIN support at rates from 0 to 20 Kbps. The product utilizes a highspeed USB 2.0 interface for connection to a PC, and its Windows plug-and-play design ensures system compatibility.

Combined with the powerful TSMaster software, TC1026 supports the loading of DBC, LDF, and ARXML data base files. This facilitates convenient monitoring, analysis, and simulation of CAN FD/LIN bus data. Additionally, it supports functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration, and more.

It is suitable for secondary development with APIs available for both Windows and Linux systems, supporting various programming environments such as C++, C#, LabView, Python, among others. This versatility enables easy integration into diverse testing systems, ensuring high efficiency and usability.

Classic Application:

- Whole vehicle multi-channel CAN FD/CAN bus data acquisition
- Domain controller testing
- Various automated testing systems

Characteristics

- Microsecond (µs)-level hardware message timestamping, meeting advanced requirements
- High-speed USB 2.0 interface, plug-and-play design for Windows and Linux systems, ensuring system compatibility
- CAN channels isolated at DC 2500V
- Automotive-grade design, supporting LDF, dbc, a2l, blf, asc, and arxml files
- Adjustable CAN bus baud rates from 125Kbps to 8Mbps
- LIN bus master and slave nodes configurable via software
- Support for recording and offline/online replay in blf and asc formats
- Capable of UDS diagnostics, CCP, and XCP calibration
- Support for UDS-based Flash Bootloader
- Capability for UDS diagnostics based on the LIN bus
- · Support for information security testing
- Secondary development interfaces for Windows and Linux systems
- Built-in 120-ohm terminal resistance configurable via software
- · Capability to load all paid licenses for TSMaster

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Specification

1 x CAN FD 6 x LIN
High-speed USB 2.0 interface
DB9
Driverless design for Windows and Linux systems,
ensuring system compatibility
Each channel supports a transmit buffer of up to 1000 CAN frames
Support for CAN 2.0A, B protocols, compliant with ISO11898-1 standard,
baud rate from 5Kbps to 1Mbps
Support for ISO and non-ISO standard CAN FD, baud rate
from 125Kbps to 8Mbps
Support for LIN 1.3 and 2.0, baud rate from 0 to 20Kbps
Support for LDF files and execution of scheduling tables,
or self-configuration of scheduling tables
lµs hardware message timestamp
Built-in 120-ohm terminal resistance configurable via software
Maximum 20,000 frames/second
Maximum 20,000 frames/second
CAN channel isolation at DC 2500V, electrostatic discharge contact level ±8KV
USB-powered; external power supply required for LIN communication
Aluminum
100mm*80mm*30mm
-40°C to 80°C
10% to 90% relative humidity (non-condensing)
Keep away from corrosive gases

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

Ordering information

Product Name	Model Number	
Network Device	TC1026	
Function Description		
1 channel CAN FD, 6-channel LIN to USB interface		

Shipping list

• TC1026 device · USB cable

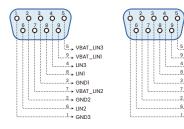
• DB9 female connector to 5 banana plugs LIN bus cable

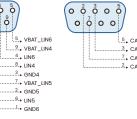
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Pin definition

· Left: LIN1/2/3 · Middle: LIN4/5/6 · Right: CANFD







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