TOSUN

TC1012P



Single channel CAN FD/LIN bus interface



Classic Application:

- Vehicle CAN FD/CAN/LIN bus data acquisition
- Domain controller testing
- Various automated testing systems

Feature Overview

TC1012P is a portable and easily installable device launched by TOSUN, providing a 1 channel CAN FD / 1 channel LIN bus to USB interface. The CAN FD bus supports a maximum rate of 8 Mbps, while the LIN bus device supports rates from 0 to 20 Kbps. The product utilizes a high-speed USB 2.0 interface for connection to a PC, and its driver-free design for Windows systems ensures system compatibility.

With the powerful TSMaster software, the device supports loading DBC and ARXML database files, facilitating the monitoring, analysis, and simulation of CAN FD/LIN bus data. It also supports UDS diagnostics, ECU flashing, CCP/XCP calibration, and other functionalities.

The device can be used for secondary development API on Windows and Linux, supporting various programming environments such as C++, C#, LabView, Python, etc. This makes it easy to integrate into various testing systems, providing efficiency and ease of use.

Product Features

- Hardware message timestamping at the microsecond (µs) level, meeting advanced requirements
- High-speed USB 2.0 interface with driverless compatibility for Windows and Linux systems, ensuring system compatibility
- CAN channel isolation up to DC2500V
- Automotive-grade design supporting LDF dbc, a2l, blf, asc and arxml file formats
- Adjustable CAN bus baud rates from 125Kbps to 1Mbps
- LIN bus master and slave nodes can be software-configured
- Support for recording data in blf and asc formats, enabling offline/online playback
- Supports UDS diagnostics and CCP/XCP calibration
- Support for UDS-based Flash Bootloader
- Support Information Security Testing
- Secondary development interfaces for Windows and Linux systems
- Built-in 120-ohm terminal resistor, software-configurable
- Supports all paid licenses for TSMaster software

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Specification

Channel

PC End

7TSMASTER
1 x CAN/ 1 x LIN
High-speed USB 2.0 interface
DB9 interface
Driver-free design for Windows and Linux systems, ensuring system compatibility
Each channel supports a transmit buffer of up to 1000 CAN frames
Supports CAN 2.0A, 2.0B protocols, compliant with ISO11898-1 standard,

DB9 interface		
Driver-free design for Windows and Linux systems, ensuring system compatibility		
Each channel supports a transmit buffer of up to 1000 CAN frames		
Supports CAN 2.0A, 2.0B protocols, compliant with ISO11898-1 standard,		
with baud rates ranging from 125Kbps to 1Mbps		
Supports both ISO and non-ISO standard CAN FD with baud rates from		
125Kbps to 8Mbps		
Supports LIN 1.3 and 2.0, with a baud rate ranging from 0 to 20 Kbps		
Supports LDF files and running scheduling tables, or configuring scheduling		
tables independently		
1µs hardware message timestamp		
Built-in 120-ohm terminal resistor, software-configurable		
Maximum of 20,000 frames/second		
Maximum of 20,000 frames/second		
CAN channel isolated at DC 2500V, with ESD protection of		
±4KV (contact discharge) and ±8KV (air discharge)		
USB powered; external power supply required for LIN communication		
Plastic		
-40°C to 85°C		
10% to 90% (non-condensing)		
Keep away from corrosive gases		

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

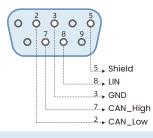
Ordering information

Product Name	Model Number	Function Description
Network Device	TC1012P	1 channel CAN FD / LIN to USB interface

Shipping list

- TC1012P device
- DB9 female to two DB9 connectors for CAN/LIN cable *1

Pin definition





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