

TL1011

1 channel fast LIN bus to USB interface



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Classic Application:

- ECU Data Acquisition
- Various test benches
- ECU Programming
- Support fast LIN

Feature Overview

The TL1011, launched by TOSUN, is a portable single channel fast LIN bus to USB interface device. The LIN bus port supports rates from 0 to 200 Kbps. The product connects to a PC via a USB 2.0 interface and supports external DC power. It features a driverless design for Windows and Linux systems, providing excellent system compatibility.

With the powerful TSMaster software, it supports loading DBC, LDF, etc. database files, making it very convenient to monitor, analyze, and simulate LIN bus data. It also supports functions such as UDS diagnostics, ECU flashing and so on.

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

- Portable design, facilitating integration into various devices or instrument panels
- The unique free transmission mode can reduce the barriers to developing and debugging the LIN bus systems
- Automotive grade design, supporting DBC files, LDF files, XML files, etc
- Supports UDS diagnostics based on LIN bus
- Supports UDS based Bootloader flashing
- The power supply for this product offers two options: internal power supply and external power supply. If internal power supply is selected, the maximum output voltage provided by the product is 12V. If external power supply is selected, it can accept a voltage of up to 36V
- Supports blf and asc format data recording and offline/online playback
- Built in script editor, supporting virtual simulation and HIL simulation

Specification

Channel	1 x Fast LIN
PC Interface	USB 2.0
LIN Interface	DB9
Driver	Driver-free design for Windows and Linux systems, ensuring system compatibility
LIN	Supports LIN protocol 1.3/2.0/2.1/J2602, with baud rates from 0 to 200Kbps
Timestamp Accuracy	1 μ s, hardware message timestamp
Schedule Table	Supports LDF files and running schedule tables, and also allows for self configuration of schedule tables
Relay Type	Signal relay (not magnetic latching)
Power Supply	USB power supply, supports external DC power supply (9-36V)
Power Consumption	1W (typical)
Case Material	Plastic
Dimension	Approx. 94 x 48 x 24mm
Weight	Approx: 108g (without packaging)/Approx: 303g (with packaging and wiring)
Operating Temperature	80°C
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	Keep away from corrosive gases

Ordering information

Product Name	Model Number	Function Description
Network Device	TL1011	1 channel LIN bus

Shipping list

- TL1011 device
- DB9 to 3 banana plugs LIN_cable

Pin definition

