

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

- μ s (microsecond) level hardware message timestamps to meet advanced requirements
- Portable design with uniquely designed mounting holes, 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
- Supports UDS diagnostics based on LIN bus
- Supports UDS based Bootloader flashing
- Supports secondary development interfaces for Windows and Linux systems
- The LIN bus primary and secondary nodes can be configured via software
- 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 200 Kbps
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 to 36V)
Power Consumption	1 W (typical)
Case Material	Plastic
Dimension	Approx. 94 x 48 x 24 mm
Weight	Approx: 108 g (without packaging)/Approx: 303 g (with packaging and wiring)
Operating Temperature	-40°C ~ 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



DB9 to 3 LIN adapter cable

Pin definition

