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CAN(FD)/LINBus

- Automotive level CAN、
  CANFD、LINbus equipment
- Support production line interface
  module with graphical
  programming
- Flash BootLoader Embedded code
  /PC software

Diagnostic/calibration

- UDS Diagnostics embedded
  code/PC software
- CCP/XCP Calibrate embedded
  code/PC software

Rapid prototyping

- MBD rapid ECU development
- The rapid prototyping controller
  can be installed directly on the
  vehicle

Non-standard equipment / EOL equipment

- Automotive sunroof test solution
- Automotive wiper test solution
- Automotive "four doors and two
  covers" test solution
- Motor performance/endurance test
  solution
- Auto parts EOL equipment

One-stop turnkey service

For more information about any of
our products or services, please visit
our website：www.tosunai.cn

Technology BBS：
www.tosun.tech

TL1001
—— Automotive Grade portable LIN bus interface

Interface：
Easy mounting hole design.
USB：High-speed USB2.0 interface.
1 LIN bus
DB9 Male：
  PIN 3：GND
  PIN 8：LIN
  PIN 9：Vbat_LIN

TL1001is a portable single channel LIN bus interface for high-speed USB2.0, LIN bit rates 0-20Kbit/s. The driver-free design of Windows system makes the device have excellent system compatibility.

TSMaster software can be used to LIN bus measurement,logging, LIN UDS Diagnostics and flashing, support LDF，ASC，BLF files.

We supply the API for Windows, Linux, which enables the device to be easily integrated into other devices or software systems.

Suitable for R&D, ECU production line, test engineers, after-sales engineers.

Features：

- Unique free-to-send mode make LIN bus development and debugging more easily.
- Time stamp resolution 1 μs, which meets advanced requirements.
- Portable design, unique design of mounting holes，Easy to integrate into
  a variety of equipment or instrument panel.
- High-speed USB2.0 interface，The driver-free design of Windows system
  makes the device have excellent system compatibility.
- Auto grade design, support LDF，ARXML files.
- Support LIN bus UDS Diagnostic.
- Support TOSUN LIN Flash BootLoader series software.
- Support Windows and Linux secondary development interfaces.
- Support LIN Master and Slave node, configured by software.
- Support BLF format to data recording and offline/online playback.
- Built-in script editing, support virtual simulation, semi-physical simulation.

Services：

PC software customization	Diagnostic protocol customization
Device communication interface integration	Function customization
BootLoader custom	Production line integration
CCP/XCP protocol customization	

Hardware Technical Specifications：

PC	High-speed USB2.0 interface
LIN interface	D-SUB9 interface
Driver	Drive-free design in Windows system, excellent system compatibility, Linux driver support
LIN protocol	Support LIN1.3 and 2.x，baud rate 0~20Kbit/s
Scheduling table	Support load scheduling tables from LDF files, or free configure schedule tables in TSMaster
Channel number	1
Time stamp accuracy	1us，hardware message timestamp, meet advanced requirements
Power supply	USB power supply
Working temperature	-40℃ ~ 85℃

TSMaster software related functions：

Secondary development	Support Python，LabView，C#，C++, etc
Supported protocols	CAN FD,CAN,LIN; Coming soon of Automotive Ehternet and Flexray
Max CAN channels	32
Message transmit	Raw data message and DBC/LDF message；Signal generator can be configured
Message monitoring	Monitor raw data in real time，Signal physical values can be displayed after the DBC/LDF is loaded, decoding raw CAN bus data to 'physical values'
DBC database	supported
Filter	Flexible filter configuration based on Channels, CAN ID and signal value ranges
Logging	Logging directly to computer hard drive with BLF file, Maximum recording time depends on the size of the hard disk.
Record file format	BLF file format, which could also convert to ASC or MAT format
Simulation	Support CAN residual bus simulation,Load the DBC and select the node to be emulated, C programming could create more flexible simulation.
Playback	Supports online and offline playback
Statistics	Include Bus Load, frame rate, error count, error frame rate, etc
Graphical display	Support curve, dashboard and numerical display to display physical signals value.
Programming script	C language / Python
UDS diagnostic (Additional payment options）	Support configuration of diagnostic parameters and diagnostic services, multi-frames sending. ODX files import and Flashing option is coming soon.
CCP/XCP calibration (Additional payment options）	Support A2L files import, support online/offline calibration and Flashing
Operating system	Win7/8/10/11