TOSUN同星

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

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TC1001

— Automotive Grade portable CAN bus interface

Interface:

Easy mounting hole design;
USB: High-speed USB2.0 interface;
1 CAN bus
TSMaseter software
DB9 Male:
PIN 2: CAN_Low
PIN 3: CAN_GND
PIN 5: CAN_Shield
PIN 7: CAN_High

TC1001 is a portable, easy to install high-speed CAN bus interface for high-speed USB2.0, CAN bit rates up to 1 Mbit/s. The driver-free design of Windows system makes the device have excellent system compatibility.

Support TICPSH information security test function.

TSMaster software can be used to CAN bus measurement,logging,re-play,RBS,UDS Diagnostics and flashing,CCP/XCP calibration and flashing, support DBC, 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:

- 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.
- CAN channel DC2500V isolation.
- Auto grade design, support DBC, LDF, ASC, BLF files.
- Support BLF format data recording and offline/online playback.
- Built-in script editing, support virtual simulation, semi-physical simulation.
- Support TICPSH information security test function.
- Support UDS diagnostic and CCP calibration.
- Support TOSUN CAN Flash BootLoader series software.
- Support Windows and Linux secondary development interfaces.

Services:

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

Hardware Technical Specifications:

PC	High-speed USB2.0 interface
CAN interface	D-SUB9 interface
Driver	Drive-free design in Windows system, excellent system compatibility, Linux driver support
Cache	Communication is highly reliable without frame loss for Hardware cache
CAN protocol	Support CAN2.0A/B, conform to ISO11898-1 specification, baud rate 5kbit/s-1Mbit/s
Max. channels	1
Time stamp accuracy	1us，hardware message timestamp, meet advanced requirements
Messages per second sending	Maximum 20000mps
Messages per second receive	Maximum 20000mps
Electric isolation	CAN channel DC2500V isolation, electrostatic grade contact discharge ±8KV
Termination resistors	Built-in 120 Ohm terminal resistor is configurable by software
Power supply	USB power supply
Operating temperature range	-40℃～85℃
Shell material	Synthetic resin

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