

TC1001

1 channel CAN to USB interface



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Classic Application:

- ECU data acquisition
- Various types of test benches
- ECU flashing

Feature Overview

TC1001 is a portable and easy-to-install 1 channel CAN bus to USB interface device launched by TOSUN. With a maximum speed of 1Mbps, the product utilizes a high-speed USB 2.0 interface for PC connectivity and features driverless design for Windows systems, ensuring compatibility.

Complemented by the powerful TSMaster software, it supports loading DBC and ARXML database files. This allows users to conveniently monitor, analyze, and simulate CAN bus data. Additionally, it supports functions such as UDS diagnostics, ECU flashing, CCP/XCP calibration, and more.

Furthermore, it offers secondary development APIs for Windows and Linux, supporting various development environments such as C++, C#, LabView, Python, and more, making it easily integrable into various testing systems, ensuring high efficiency and ease of use.

Characteristics

- Microsecond (μ s)-level hardware message timestamping to meet advanced requirements
- Portable design with uniquely designed mounting holes for easy integration into various devices or instrument panels
- High-speed USB 2.0 interface, driverless design for Windows systems, ensuring system compatibility
- CAN channel isolated at DC 2500V
- Automotive-grade design, supporting dbc files, a2l files, blf files, asc files
- Supports data recording in BLF format and offline/online playback
- Capable of UDS diagnostics and CCP calibration
- Supports UDS-based Flash Bootloader
- Offers secondary development interfaces for Windows and Linux systems
- Built-in 120 Ω termination resistor configurable via software
- Capable of loading all paid licenses of TSMaster

Specification

Channel	1 x CAN
PC End	High-speed USB 2.0 interface
CAN End	DB9 interface
Driver	Driverless design for Windows systems, ensuring system compatibility
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
CAN	Supports CAN2.0A, B protocols, compliant with ISO11898-1 standard, baud rate 5Kbps–1Mbps
Termination resistor	Built-in 120Ω termination resistor configurable via software
Timestamp accuracy	1μs hardware message timestamp
Messages sent per second*	Maximum of 20,000 frames/second
Messages received per second*	Maximum of 20,000 frames/second
Isolation	CAN channel isolated at DC 2500V, electrostatic discharge level ±8KV
Power supply	USB-powered
Casing material	Plastic
Operating temperature	-40°C to 85°C
Operating humidity	10% to 90% (non-condensing)
Operating environment	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	TC1001	1 channel CAN to USB interface

Shipping list · TC1001 device

Pin definition

