

TC1013



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Dual-channel CAN FD bus interface



Classic Application:

- · ECU data acquisition
- · Various test benches
- ECU flashing
- ECU calibration

Feature Overview

TC1013 is a portable and easy-to-install device launched by TOSUN, providing a 2 channel CAN FD bus to USB interface. With a maximum speed of 8 Mbps, it connects to a PC via a high-speed USB 2.0 interface, designed with driverless compatibility for Windows and Linux systems.

Paired with the robust TSMaster software, it supports loading DBC and ARXML database files, enabling convenient monitoring, analysis, and simulation of CAN FD bus data. Additionally, it facilitates functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration, among others.

This device offers secondary development APIs for Windows and Linux, supporting various development environments like C++, C#, LabView, Python, etc. This flexibility allows for seamless integration into diverse testing systems, ensuring efficiency and user-friendliness.

Characteristics

- Hardware message timestamping at the microsecond (µs) level, meeting advanced requirements
- Portable design with uniquely designed mounting holes,facilitating integration into various devices or instrument panels
- High-speed USB 2.0 interface with driverless compatibility for Windows and Linux systems, ensuring system compatibility
- · CAN channel isolation up to DC2500V
- Automotive-grade design supporting dbc, a2l, blf, and asc file formats
- Adjustable CAN bus baud rates from 125Kbps to 8Mbps
- Support for recording data in blf and asc formats, enabling offline/online playback
- Supports UDS diagnostics and CCP/XCP calibration
- Support for UDS-based Flash Bootloader
- Secondary development interfaces for Windows and Linux systems
- Built-in 120-ohm terminal resistor,software configurable
- · Ability to load all paid licenses for TSMaster



Specification

Channel	2 x CAN FD	
PC End	High-speed USB 2.0 interface	
CAN End	DB9 interface	
Driver	Driver-free for Windows and Linux systems, ensuring system compatibility	
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames	
CAN	Supports CAN 2.0A, 2.0B protocols, compliant with ISO11898-1 standard,	
	with baud rates ranging from 5Kbps to 1Mbps	
CAN FD	Supports both ISO and non-ISO standard CAN FD with baud rates from	
	125Kbps to 8Mbps	
Terminal resistance	rminal resistance Built-in 120-ohm terminal resistors, configurable via software	
Timestamp	lµs hardware message timestamp	
Messages Sent per Second*	Maximum of 20,000 frames/second	
Messages Received per Second*	Maximum of 20,000 frames/second	
Isolation	tion CAN channel DC2500V isolation, ESD level contact discharge ±8KV	
Power Supply	USB-powered	
Casing Material	Plastic	
Operating Temperature	-40°C to 85°C	
Operating Humidity	10% to 90% (non-condensing)	
Operating Evironment Keep away from corrosive gases		

^{*}Single channel at 1 Mbps with a 0-byte data field

Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1013	2 channel CAN FD to USB interface

Shipping list

- · TC1013 device
- · DB9 female to two DB9 male CAN cable *1

Pin definition

