

TC1011

Single-channel CAN FD bus interface



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Classic Application:

- ECU data collection
- Various test benches
- ECU flashing

Feature Overview

TC1011 features a 4 channel CAN FD bus to USB interface. It operates at a maximum speed of 8 Mbps and connects to PCs via a high-speed USB 2.0 interface. The driverless design for Windows systems ensures system compatibility.

When coupled with the powerful TSMaster software, TC1011 supports loading DBC and ARXML database files, facilitating easy monitoring, analysis, and simulation of CAN FD bus data. It also supports functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration, among others.

It offers secondary development APIs for Windows and Linux, supporting various development environments like C++, C#, LabView, Python, making it easy to integrate into various testing systems, ensuring efficiency and ease of use.

Characteristics

- Hardware message time stamp at microsecond (μs) level, meeting advanced requirements
- Portable design with uniquely designed installation holes, easy to integrate into various devices or instrument panels
- High-speed USB 2.0 interface, with driverless design for Windows and Linux systems, ensuring system compatibility
- CAN channel isolated at DC 2500V
- Automotive-grade design, supporting dbc, a2l, blf, and asc file formats
- Adjustable CAN channel baud rate from 125Kbps to 8Mbps
- Support for blf and asc format data recording, as well as offline/online playback
- Capable of supporting UDS diagnostics and CCP calibration
- Supports secondary development interfaces for Windows and Linux systems
- Built-in 120 Ω termination resistor configurable via software
- Supports Flash Bootloader based on UDS
- Capable of loading all paid licenses for TSMaster

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Specification

Channel	1 x CAN FD	
PC End	High-speed USB 2.0 interface	
CAN End	DB9 interface	
Driver	Driver-free design for Windows 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	Built-in 120-ohm terminal resistors, configurable via software	
Timestamp	lus hardware message timestamp	
Messages sent per second*	Maximum of 20,000 frames per second	
Messages received per second*	Maximum of 20,000 frames per second	
Isolation	CAN channel DC2500V isolation, ESD level contact discharge ±8KV	
Power supply	USB-powered	
Casing material	Plastic	
Operating temperature	-40℃ to 85℃	
Operating humidity	10% to 90% (non-condensing)	
Operating environment	Keep away from corrosive gases	

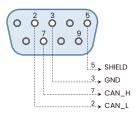
*Single channel at 1Mbps with 0-byte data field scenario

Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1011	1 channel CAN FD to USB interface

Shipping list · TC1011 device

Pin definition



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