

# 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 ( $\mu$ s) 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 $\Omega$  termination resistor configurable via software
- Supports Flash Bootloader based on UDS
- Capable of loading all paid licenses for TSMaster

## 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	1us 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°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	TC1011	1 channel CAN FD to USB interface

**Shipping list** · TC1011 device

### Pin definition

