

# TC1018

## 12 channel CAN FD to USB interface



Scan the code to follow



### Classic Application:

- Whole vehicle multi-channel CAN FD/CAN/LIN bus data acquisition
- Domain controller testing
- Various automated testing systems

## Feature Overview

TC1018 is a device with a 12 channel CAN FD to USB interface, designed to adeptly handle tasks related to CAN FD/CAN network development, simulation, and testing. It seamlessly integrates with the powerful TSMaster software, supporting the loading of DBC and ARXML database files. This allows for convenient monitoring, analysis, and simulation of CAN FD bus data. Additionally, it supports functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration, and more.

It offers secondary development APIs for Windows and Linux, facilitating support for various development environments such as C++, C#, LabView, Python, etc. This ease of integration makes it suitable for incorporation into diverse testing systems, ensuring high efficiency and usability.

## Characteristics

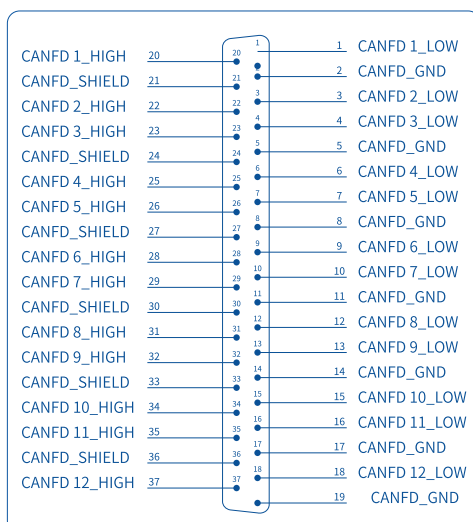
- Microsecond-level hardware message timestamping to meet high-level requirements
- Driver-free design for Windows and Linux systems with USB 2.0 interface, offering excellent system compatibility
- CAN channel isolation with DC 2500V
- Automotive-grade design, supporting dbc, a2l, blf, asc, and arxml file formats
- Adjustable CAN channel baud rate from 125 Kbps to 1 Mbps, with CAN FD supporting up to 8 Mbps
- Supports blf and asc format data logging and offline/online playback
- Supports UDS diagnostics and CCP/XCP calibration
- Supports UDS-based Flash Bootloader
- Supports information security testing
- Provides secondary development interfaces for Windows and Linux systems
- Built-in 120-ohm termination resistor, software-configurable
- Supports all paid licenses of TSMaster

Channel	12 x CAN FD
PC End	USB 2.0
CAN End	DB37, with a cable that converts DB37 to 8 DB9 interfaces
Driver	Driver-free design for Windows and Linux systems, ensuring system compatibility
Buffer	Each channel supports a transmit buffer of up to 700 CAN FD@64 bytes
CAN	Supports CAN 2.0A, B protocols, compliant with ISO11898-1 standard, with baud rate 125Kbps-1Mbps
CAN FD	Supports CAN FD that complies with both ISO and non-ISO standards, with baud rates from 125Kbps to 8Mbps
Timestamp	1 $\mu$ s hardware message timestamp
Termination Resistor	Built-in 120-ohm termination resistor, software configurable
Messages Sent per Second	Maximum of 17,000 frames/second
Messages Received per Second	Maximum of 17,000 frames/second
Isolation	CAN channel isolated at DC 2500V, with ESD protection of $\pm$ 4KV (contact discharge) and $\pm$ 8KV (air discharge)
Power Supply	DC 7-18V
Operating Temperature	40°C ~ 85°C
Casing Material	Aluminum
Dimensions	100 x 80x 30mm

## Ordering information

Product Name	Model Number	Function Description
Network Device	TC1018	12 channel CAN FD to USB interface

## Pin definition



## Shipping list

- TC1018 device
- USB Cable \*1
- DB37 female to 12 DB9 male connector cable \*1
- DC 12V 2A power supply adapter\* 1



DB37 compatible cables