TC1018

12-channel CAN FD to USB interface

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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 toCAN 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

- Hardware timestamping at microsecond (μs) level, meeting high-level requirements
- Windows plug-and-play design for excellent system compatibility
- 12 channel isolated CAN FD interfaces available through adapter cables with standard DB-9 connectors Power supply via USB supports 4 channels for transmission and reception, while 8 channels are for reception only Under external power supply, all 12 channels
- support full functionality
- CAN channel isolation at 2500V DC
- Automotive-grade design, supporting DBC, A2L, ASC, and ARXML files
- Support for recording data in BLF and ASC formats, allowing offline/online data replay
- Capable of UDS diagnostics and CCP/XCP calibration
- Support for UDS-based Flash Bootloader
- Supplementary APIs for Windows and Linux systems for secondary development
- Capability to load all paid licenses for TSMaster
- Potential future support for use as an offline gateway (current version does not support, but future expansion is planned)

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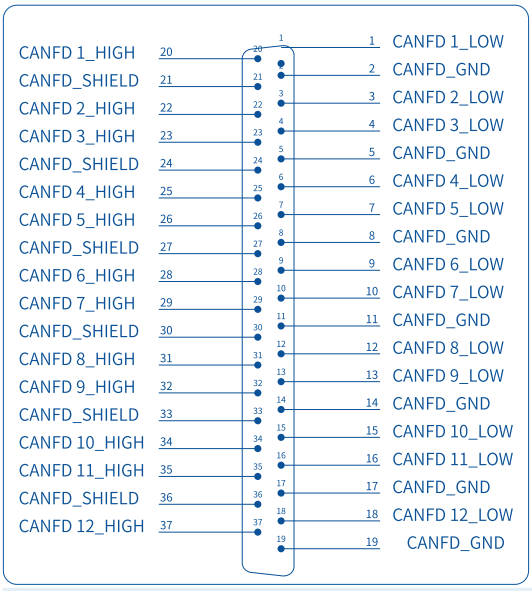
Specification

Channel	12 x CAN FD
PC interface	USB 2.0
CAN interface	DB37, with a cable that converts DB37 to 12 DB9 interfaces
Driver	Driverless design for Windows system, with excellent 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, baud rate from 5Kbps to 1Mbps
CAN FD	Supports both ISO and non-ISO standard CAN FD, baud rates from 100Kbps to 8Mbps
Termination Resistor	1μs hardware message timestamp
Timestamp Precision	Built-in 120 ohm termination resistor configurable via software
Messages sent per second	Maximum of 17,000 frames/second
Messages received per second	Maximum of 17,000 frames/second
Isolation	CAN channel DC2500V isolation, electrostatic discharge level of ±8KV for contact discharge
Power Supply	DC 7-18V
Operating Temperature	-40°C to 85°C
Enclosure Material	Aluminum
Size	106mm*84mm*32mm

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
- DB37 to 12 DB9 adapter cable
- DC 12V Power adapter

DB37-compatible cables

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