

TC1013HV

2 channel CAN FD bus interface



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Classic Application:

- Synchronized CAN FD data acquisition and analysis
- Domain controller simulation, testing, and diagnostics
- Automated and durability test system development
- Vehicle diagnostics, ECU calibration, and flashing

Feature Overview

TC1013HV is a dual-channel CAN FD interface device developed by TOSUN. It supports CAN FD bus rates up to 8 Mbps and connects to the PC via a USB 2.0 interface. With driver-free support for both Windows and Linux systems, the device offers excellent system compatibility.

The TC1013HV also features 4.5 kV DC galvanic isolation, enabling reliable operation in demanding EMC test environments. In addition, it meets IEC 61000-4-2 ESD immunity levels (± 8 kV contact, ± 15 kV air) and IEC 61000-4-4 EFT immunity requirements (± 2 kV), ensuring robust performance under harsh electromagnetic conditions.

When used with the powerful TSMaster software, it supports loading DBC and ARXML database files, enabling easy monitoring, analysis, and simulation of CAN FD bus data. It also supports UDS diagnostics, ECU flashing, and CCP/XCP calibration.

Characteristics

- CAN FD monitoring software: TSMaster

Platform	Supported APIs
Windows	TSMaster Libtscan TSdev
Linux x64	Libtscan TSdev
Linux ARM64	TSdev
HarmonyOS	TSdev



Specification

PC Interface	USB 2.0
Timestamp Accuracy	1 μ s hardware message timestamp
Driver	Cross-platform driver-free design
Interface PIN	Standard D-Sub, 9-pin
License	Compatible with all TSMaster paid license modules
Power Supply	USB power supply
Power Consumption	2.5 W
ESD Protection Level	Contact Discharge: 8 kV, Air Discharge: 15 kV
Case Material	Plastic
Dimension	Approx. 113 x 98 x 38 mm
Weight	Approx. 162.5 g
Operating Temperature	-40°C ~ 80°C
Operating Humidity	10% ~ 90% (non-condensing)

CAN FD

CAN Connection Standard	High-speed CAN connection (ISO 11898-2 compliant)
Protocol Support	Full support for CAN and CAN FD protocols (ISO 11898-1 compliant)
CAN Baud Rate Range	Configurable from 125 kbps to 1 Mbps
CAN Data Length	Supports up to 8-byte CAN frames
CAN FD Baud Rate Range	Configurable from 125 kbps to 8 Mbps
CAN FD Data Length	Supports up to 64-byte CAN FD frames; BRS supported
Max Frame Rate (Tx/Rx)	Max TX rate: 15,000 fps; Max RX rate: 20,000 fps
Terminal Resistance	Built-in 120 Ω termination per CAN channel
Relay Type	Latching relay

Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1013HV	2 channel CAN FD to USB interface

Shipping list

- TC1013HV device
- USB cable

Pin definition

