

TC1013Pro

2 Channel CAN FD Bus and I/O Interface



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Classic Application:

- Multi-channel vehicle CAN FD / CAN bus data acquisition and domain controller testing
- Building and integrating automated test systems
- UDS diagnostics, ECU flashing, and CCP/XCP calibration
- Offline / online playback of BLF and ASC format files
- I/O signal acquisition, output, and bus co-simulation testing

Feature Overview

TC1013Pro is a 2 channel CAN FD bus and I/O interface device developed by TOSUN. It supports CAN FD bus speeds of up to 8 Mbps. The device connects to a PC via a USB 2.0 interface and features a driver-free design compatible with both Windows and Linux systems, providing excellent system compatibility.

Combined with the powerful TSMaster software, TC1013Pro supports loading DBC and ARXML database files, enabling convenient monitoring, analysis, and simulation of CAN FD bus data. It also supports UDS diagnostics, ECU flashing, and CCP/XCP calibration.

The product package includes:

- TSMaster bus monitoring and analysis software
- Cross-platform secondary development library (with a separate programming manual)

Characteristics

- Microsecond-level hardware timestamps for precise simulation and diagnostics
- Driver-free design for Windows and Linux systems, with excellent system compatibility
- Supports 2 channels of CAN / CAN FD, along with 4 channels of DI/DO and 3 channels of AI/AO
- CAN channel baud rate adjustable from 125 kbps to 1 Mbps; CAN FD supports up to 8 Mbps
- CAN built-in 120 Ω termination resistor, software-configurable
- CAN supports Self-ACK self-acknowledgment configuration
- Supports BLF and ASC format data recording and offline / online playback
- Supports hardware time synchronization across multiple devices
- Provides cross-platform development APIs for advanced customization

Specification

Channel	2 × CAN FD, 4 × DI/DO, 3 × AI/AO, 1 × Sync
PC Interface	USB 2.0
Timestamp Precision	1 μs hardware message timestamp
Driver	Driver-free for Windows and Linux
Connector Pins	Standard D-Sub, 9-pin
License	Supports all TSMaster paid licenses
Power Supply	DC power, supply voltage range 9 ~ 32 V
Power Consumption	3.6 W
Enclosure Material	Plastic
Dimensions	Approx. 113 × 98 × 38 mm
Weight	Approx. 286.4 g
Operating Temperature Range	-40°C ~ 80°C
Operating Humidity Range	10% ~ 90% (non-condensing)
Operating Environment	Away from corrosive gases

CAN/CAN FD

CAN Connection Standard	High-speed CAN connection (complies with ISO 11898-2)
Protocol Support	Fully supports CAN and CAN FD protocols (complies with ISO 11898-1)
CAN Baud Rate Range	Adjustable from 125 kbps ~ 1 Mbps
CAN Data Length	Supports up to 8 byte data frames
CAN FD Baud Rate Range	Adjustable from 125 kbps ~ 8 Mbps
CAN FD Data Length	Supports up to 64 byte data frames, supports BRS frame type
Maximum Message Rate	Max transmit rate: 20,000 frames/sec; Max receive rate: 20,000 frames/sec (single channel, 1 Mbps, 0-byte remote frame)
Termination Resistor	Each CAN channel has a built-in 120 Ω termination resistor
Relay Type	Magnetic latching relay

DI/DO

DI Input Voltage Range	0 ~ 40 V
DI Threshold	VH = 5 V; VL = 1 V
DO Output Level	Low level 0 V, high level 5 V (not rated for use with a load)

AI/AO

AI Input Voltage Range	0 ~ 40 V
AO Output Voltage Range	0 ~ 30 V

Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1013Pro	2 channel CAN FD bus and I/O interface

Shipping list

- TC1013Pro device
- USB cable
- 12 V / 2 A power adapter
- Analog/Digital interface DB9 male harness
- TSKT02 bracket (Optional)



12 V / 2 A power adapter



USB cable



DB9 male harness



TSKT02 bracket

Pin definition

