TOSUN

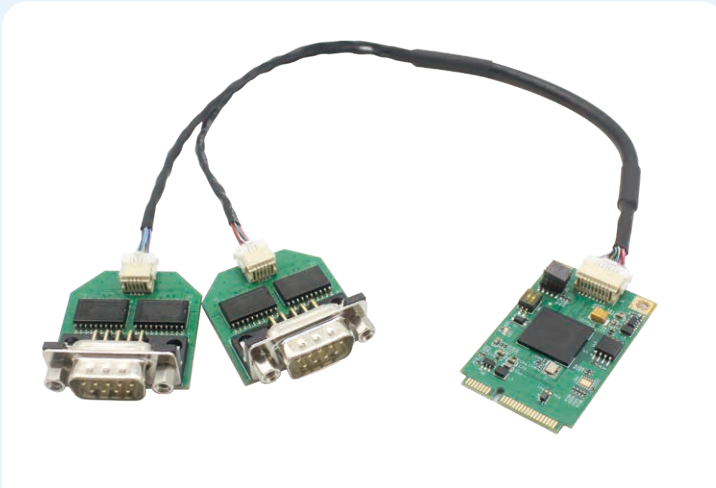# TC3014

Multi-channel CAN/CAN FD communication tool

Classic Application:

- Multi-channel CAN synchronous monitoring
- Real-time communication diagnostics
- Support SocketCAN

Feature Overview

The TC3014 is a multi-channel CAN/CAN FD communication tool based on SocketCAN.

It features four independent and isolated CAN/CAN FD interfaces, enabling CAN communication as easily and efficiently as network programming.

The device supports CAN FD bus speeds up to 5 Mbps (optionally up to 8 Mbps), connects to the host via a Mini PCIe interface, and provides a fully compatible Linux driver, ensuring excellent system integration and stability.

Equipped with a China-made main control chip, TC3014 supports full localization configurations and enables real-time monitoring of multiple bus networks simultaneously.

Its compact design allows for easy integration into in-vehicle industrial PCs, single-board computers, portable industrial hosts, and rugged notebooks, offering flexible installation and deployment.

CAN/CAN FD Specifications

Supported Protocols	CAN 2.0 A/B (ISO 11898-1), CAN FD (ISO and non-ISO)
CAN Baud Rate	125 Kbps ~ 1 Mbps
CAN Frame Data Length	Up to 8 bytes
CAN FD Baud Rate	125 Kbps ~ 5 Mbps (8 Mbps optional)
CAN FD Frame Data Length	Up to 64 bytes; supports BRS frames
Channel	4 x CAN/CAN FD
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames

Specification

PC Interface	Mini PCIe interface (USB channel)
Driver	Linux driver support
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
Connector	Standard D-Sub, 9-pin
CAN	Supports CAN 2.0 A/B protocols (ISO 11898-1 compliant); baud rate 125 Kbps ~ 1 Mbps
CAN FD	Supports both ISO and non-ISO CAN FD standards; baud rate 125 Kbps ~ 5 Mbps (8 Mbps optional)
Power Supply	Powered via Mini PCIe
Power Consumption	2 W
Sample Point Range	Adjustable from 70% ~ 90%
Dimension	Approx. 30 x 50.95 mm
Weight	Unpackaged
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	Keep away from corrosive gases

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Ordering information

Product Name	Model Number	Function Description
Network Device	TC3014	Multi channel CAN/CAN FD communication tool

Shipping list

- TC114 device
- USB connection cable

Pin definition

Pin	Signal
5	CAN FD_Shield
9	CAN FD 3_GND
4	CAN FD 3_Low
8	CAN FD 3_High
7	CAN FD 1_High
2	CAN FD 1_Low
1	CAN FD 1_GND

Pin	Signal
5	CAN FD_Shield
9	CAN FD 4_GND
4	CAN FD 4_Low
8	CAN FD 4_High
7	CAN FD 2_High
2	CAN FD 2_Low
1	CAN FD 2_GND