

TC1113/4B

2/4channel CAN FD to USB/WIFI



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Classic Application:

- OBD Data Viewing and Analysis
- Wireless Transmission of OBD Data
- DTC Fault Viewing and Clearing
- Vehicle/ECU Flashing

Feature Overview

TC1113B and TC1114B are 2/4 channel CAN FD bus to USB and WIFI tools introduced by TOSUN. The CAN FD bus supports a maximum rate of 8 Mbps. The products utilize a high-speed USB 2.0 interface to connect to a PC, and they are linked to the vehicle through an OBD port. They also support WIFI functionality. The plug-and-play design for Windows systems ensures device compatibility.

When used in conjunction with the powerful TSMaster software, these tools support loading DBC and ARXML database files. This allows for convenient monitoring, analysis, and simulation of CAN FD bus data. Additionally, they support UDS diagnostics, ECU flashing, and other functionalities.

WIFI mode is recommended for message monitoring and diagnostics, but not recommended for simulation. The secondary development API, available for both Windows and Linux, supports various programming environments, including C++, C#, LabView, Python, and more. This facilitates seamless integration into diverse testing systems, offering efficiency and user-friendliness.



Characteristics

- μ s (microsecond) level hardware message timestamp, meeting advanced requirements
- High-speed USB 2.0 interface, plug-and-play design for Windows and Linux systems, ensuring system compatibility
- CAN channel DC 2500V isolation
- Automotive-grade design, supports DBC and ARXML database files through TSMaster software
- Adjustable CAN channel baud rate from 125Kbps to 1Mbps
- Adjustable CAN FD channel baud rate from 125Kbps to 8Mbps
- Supports BLF, ASC format data recording, and offline/online playback
- Supports UDS-based Flash Bootloader
- Supports secondary development interfaces for Windows and Linux systems
- Built-in 120-ohm terminal resistance configurable via software

WIFI functionality

- Supports IEEE 802.11 b/g/n protocol
- Operating channel center frequency range: 2412 ~ 2484 MHz
- Supports 20MHz and 40MHz bandwidth in the 2.4GHz band
- Supports 1T1R mode, with data rates up to 150 Mbps
- Wireless Multimedia (WMM)
- Frame aggregation (TX/RX A-MPDU, TX/RX A-MSDU)
- Immediate block acknowledgment (Immediate Block ACK)
- Fragmentation and defragmentation Transmission opportunity (TXOP)
- Beacon auto-detection (Hardware TSF)
- 4x virtual Wi-Fi interfaces
- Simultaneously supports Infrastructure BSS (Basic Service Set), Station mode, SoftAP mode, Station + SoftAP mode, and Promiscuous mode.

Specification General Parameters

Channel	2 x CAN FD / 4 x CAN FD
PC End	High-speed USB 2.0
CAN End	OBD
Driver	Plug-and-play design for Windows and Linux systems, ensuring system compatibility
CAN	Supports CAN 2.0A, B protocols, complies with ISO 11898-1 standard, baud rate from 125Kbps to 1Mbps
CAN FD	Supports both ISO and non-ISO standard CAN FD, baud rate from 125Kbps to 8Mbps
Timestamp Accuracy	1 μ s, hardware message timestamp for advanced requirements
Terminal Resistance	Built-in 120-ohm terminal resistance, configurable via software
Isolation	DC 2500V isolation for CAN channels
Material	Plastic
Dimensions	80mm x 40mm x 20mm
Operating Temperature	-40°C to 70°C
Operating Humidity	10% to 90% (non-condensing)
Operating Environment	Keep away from corrosive gases
Messages Sent per Second*	Maximum 20,000 messages per second
Messages Received per Second*	Maximum 20,000 messages per second
Power Supply	USB powered
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames

USB Mode Parameters

Messages Sent per Second*	Maximum of 20,000 frames/second
Messages Received per Second*	Maximum of 20,000 frames/second
Power Supply	USB powered
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames

WIFI Mode Parameters

Messages Sent per Second*	Maximum of 4000 frames/second
Messages Received per Second*	Maximum of 5000 frames/second
Power Supply	OBD powered
Buffer	Each channel supports a transmit buffer of up to 300 CAN frames

* Single : channel, 1Mbps, 0-byte data field scenario

Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1113B	2 channel CAN FD to USB and WIFI
Network Device	TC1114B	4 channel CAN FD to USB and WIFI

Shipping list

- TC1113B Host with USB cable
- TC1114B Host with USB cable

