TP1013

2 channel CAN FD to PCIe Interface

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Classic Application:

Automated Driving Data Collection
In various automated testing systems

Feature Overview

TP1013 is a device featuring a 2 channel CAN FD bus to PCIe interface, capable of handling tasks such as CAN FD/CAN network development, simulation, and testing effortlessly.

The TP1013 interface card allows computers equipped with PCIe slots to easily connect to CAN/CAN FD bus networks, enabling real-time monitoring of multiple bus networks. Its compact size facilitates embedding into various systems like in-vehicle industrial control computers, single-board computers (SBC), portable industrial host machines, and industrial notebooks. Installation is convenient, and usage is straightforward.

When coupled with the robust TSMaster software, it offers convenient monitoring, analysis, and simulation of CAN FD bus data. Additionally, it supports functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration, etc.

With its secondary development API, it can accommodate various development environments such as C++, C#, LabView, Python, among others, making it easy to integrate into diverse testing systems with high efficiency and user-friendliness.

Characteristics

- Microsecond-level hardware message timestamps, meeting high-level requirements
- Windows system plug-and-play design, featuring excellent system compatibility
- Standard PCIe x1 interface
- Number of channels: Dual-channel isolated CAN FD interface, provided via the interface board with standard DB-9 connectors
- CAN channel DC2500V isolation
- Automotive-grade design, supporting DBC, A2L, BLF, ASC, ARXML files
- Support for BLF and ASC data recording in offline/online playback
- Capable of supporting UDS diagnostics and CCP/XCP calibration
- Support for UDS-based Flash Bootloader
- Comes with Windows and Linux system secondary development API interfaces
- Capable of loading all paid licenses of the TSMaster software

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Specification

Channel	2 x CAN FD
PC End	Standard PCIe interface
Driver	Driverless design for Windows and Linux systems, ensuring system compatibility
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
CAN	Supports CAN2.0A/B protocol, compliant with ISO11898-1 standard, baud rate 5Kbps—1Mbps
CAN FD	Supports ISO and non-ISO standards for CAN FD, baud rate 100Kbps—8Mbps
Timestamp Accuracy	1μs hardware message timestamp
Terminal Resistor	Built-in 120-ohm terminal resistor configurable via software
Messages Sent per Second	Maximum of 17000 mps
Messages Received per Second	Maximum of 17000 mps
Isolation	CAN channels isolated at DC2500V, electrostatic discharge level ±8KV
Power supply	Via PCIe interface
Dimension	100.5mm x 121mm x 21.59mm
Operating Temperature	-40℃ to 85℃

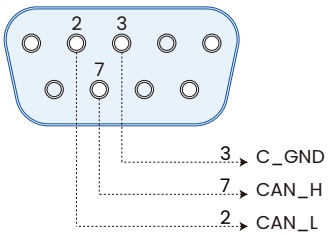
Ordering Information

Product Name	Model Number	Function Description
Network Device	TP1013	2 channel CAN FD to PCIe Interface

Shipping list

- TP1013 board

Pin Definitions



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