TOSUN

MP1013

2 Channel CAN FD to miniPCIe Interface

Classic Application:

• Automatic Driving Data Collection
• In various automated testing systems

Feature Overview

MP1013 is a device with a 2 channel CAN FD bus to mini PCIe interface, suitable for various tasks including CAN FD/CAN network development, simulation, and testing. The MP1013 interface card enables computers with miniPCIe slots to easily connect to CAN/CAN FD bus networks, allowing real-time monitoring of multiple bus networks. Its compact size makes it convenient for integration into vehicular industrial control computers, single-chip microcomputer (SCM), portable industrial hosts, and industrial laptops. It offers easy installation and simple usage.

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

With secondary development APIs, it supports various programming environments like C++, C#, LabView, Python, etc., making it easy to integrate into different testing systems, ensuring high efficiency and usability.

Characteristics

• Microsecond (μs)-level hardware message timestamping meeting advanced requirements
• Driverless design for Windows systems, ensuring system compatibility
• Standard MiniPCIe interface complying with USB 2.0 specifications
• Number of Channels: Dual-channel isolated CAN FD interfaces, provided via interface boards with standard DB-9 connectors
• CAN channel isolated at DC 500V
• Automotive-grade design, supporting DBC files, A2L files, BLF files, ASC files, ARXML files
• Supports data recording in BLF and ASC formats, along with offline/online playback
• Capable of UDS diagnostics and CCP/XCP calibration
• Supports UDS-based Flash Bootloader
• Offers secondary development API interfaces for Windows and Linux systems
• Capable of loading all paid licenses of TSMaster

Specification

Channel	2 x CAN FD
PC End	Standard mini PCIe interface
Driver	Driverless design for Windows systems, ensuring system compatibility
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
CAN	Supports CAN2.0A, B protocols, compliant with ISO11898-1 standard, baud rate 5Kbps—1Mbps
CAN FD	Supports both ISO and non-ISO standard CAN FD, baud rate 100Kbps—8Mbps
Timestamp accuracy	1μs hardware message timestamp
Packets sent per second	Maximum of 20,000 m/s
Packets received per second	Maximum of 20,000 m/s
Isolation	CAN channel isolated at 2500VDC, contact discharge electrostatic level ±8KV
Power supply	Via mini PCIe interface
Operating temperature	-40℃～85℃
Dimensions	50.1mm*30.1mm*9.2mm
Secondary development	Supports Python, LabView, C#, C++, and more

Shipping list

Product Name	Model Number	Function Description
Network Device	MP1013	2 channel CAN FD to mini PCIe Interface

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