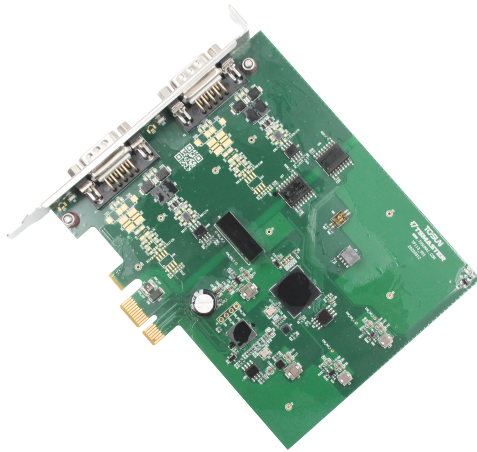


TP113

2 CH SocketCAN PCIe for CAN and CAN FD



Typical Applications

Domain controller testing; vehicle CAN FD/CAN bus data acquisition; automated test systems; embedded and industrial communication.

Feature Overview

TP113 is a 2 channel SocketCAN-based CAN/CAN FD communication card that connects to a host through PCIe. It supports CAN FD bus rates up to 5 Mbps, provides Linux drivers, and supports driver-free plug-and-play operation on Windows with CAN transmission and reception through the Windows API. Its domestically produced main controller supports a fully domestic configuration for embedded and industrial communication applications.

Characteristics

- Compatible with the Linux kernel SocketCAN subsystem.
- Official Linux drivers support mainstream distributions and Loongson Kylin systems.
- Windows supports driver-free plug-and-play operation and CAN access through the Windows API.
- Supports ISO and non-ISO CAN FD, including BRS frames and payloads up to 64 bytes.
- Provides a cross-platform secondary development library.

Technical Specifications

Channel	2 x CAN/CANFD
CAN Protocol	CAN 2.0A/B; ISO 11898-1
CAN Bit Rate	125 kbps ~ 1 Mbps
CAN FD Protocol	ISO and non-ISO CAN FD
CAN FD Bit Rate	125 kbps ~ 5 Mbps
CAN Connectors	Standard D-Sub, 9-pin
Power Supply	PCIe
Power Consumption	1.5 W
CAN Payload	Up to 8 bytes
CAN FD Payload	Up to 64 bytes
CAN FD Frame Support	BRS frames
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
Adjustable CAN Sample Point	70% ~ 90%
Dimensions	120 × 21.5 × 24 mm
Weight	106.2 g
Operating Humidity	10% ~ 90% (non-condensing)
PC Interface	PCIe
Green CAN FD LED	Successful data frame transmission or reception
Red CAN FD LED	Error frames, configuration, protocol or wiring

Applications & Interfaces



Hardware Connections

PCIe host connection and power supply; standard 9-pin D-Sub CAN/CAN FD connectors. Linux access uses the SocketCAN subsystem. Windows device access is provided through the libTSDDevBase library.

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