TOSUN

TE1024

4 Channel Automotive Ethernet PCIe Board

Scan the code to follow

Classic Application:

- Standard/Automotive Ethernet media conversion
- Various test systems

Feature Overview

The TE1024 is a 4 channel Automotive Ethernet PCIe board developed by TOSUN , featuring MATEnet connector interfaces.

The device connects to a PC via PCIe and supports configuration of master/slave mode, communication speed, and auto-negotiation through DIP switches. The device operates according to the DIP switch settings at each power-up; changes made to the DIP switches during operation will not take effect. Configuration modifications can be performed through serial commands.

The TE1024 provides a convenient and reliable conversion solution between 100/1000Base-T1 and standard Ethernet. It is suitable for various applications, including R&D debugging, ECU production line testing, laboratory verification, and after-sales maintenance.

Characteristics

- 100/1000 Mbps full-duplex UTP (Unshielded Twisted Pair) Ethernet
- 4 × Automotive Ethernet 100/1000Base-T1 channels
- Lossless data conversion between Automotive Ethernet and standard Ethernet
- LED indicators for Ethernet communication status
- Master/slave mode with 100/1000 Mbps configuration via buttons
- DIP switches for convenient configuration
- Power supply: PCIe powered

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Specification

Channel	Standard/In vehicle Ethernet 100/1000Base T1
Ethernet Interface	RJ45 + TE MATEnet or Rosenberger H-MTD
Isolation	Network transformer/capacitor isolation
Power Supply	PCIe power supply
Power Consumption	1.5 W
Enclosure Material	Metal
Dimension	Approx. 124 x 183 x 22 mm
Weight	Approx. 93 g
Operating Temperature	-40°C ~ 80°C
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	Keep away from corrosive gases

Ordering information

Product Name	Model Number	Function Description
Automotive Ethernet PCIe Card	TE1024	4-Channel Automotive Ethernet PCIe Card with MATEnet Connector Interface

Shipping list

- TE1024 device
- TE MATEnet Ethernet Cable × 2 (Optional)

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