

# TE1105

**100Base-Tx, 1000Base-T  
100/1000Base-T1 Ethernet switch**



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## Classic Application:

- Vehicle Ethernet message forwarding
- Vehicle Ethernet data monitoring and analysis
- Vehicle Ethernet communication testing
- Various test benches

## Feature Overview

TE1105 is a 5-port Ethernet switch capable of enabling interaction and packet monitoring functions between selected ports of standard Ethernet 100Base-Tx/1000Base-T or vehicle Ethernet 100/1000Base-T1 and the terminal network.

It supports IEEE 802.1q (VLAN) mode, along with MAC filtering during mirroring, IEEE802.1Qav AVB traffic shaping, and IEEE802.1Qat time scheduling.

## Characteristics

- 5 ports 100Base-Tx/1000Base-T and 100/1000Base-T1, switchable via software at anytime
- Vehicle Ethernet interfaces: TE MATenet and Rosenberger H-MTD
- Supports Ethernet packet forwarding and monitoring modes
- Supports 2 customizable configurations, allowing for VLAN definition, TSN time scheduling, AVB traffic shaping, port filtering rules, etc. (Customization to be discussed with the manufacturer)
- Mirror function: Allows packet mirroring between two channels of vehicle Ethernet
- Pass-through function: Directly transmits packets from vehicle Ethernet to PC via RJ45
- LED indicators displaying vehicle/standard Ethernet operational status
- LED indicators displaying system status, including rate, master/slave, and USB status

## Specification

|                       |  |
|-----------------------|--|
| Channel               | 5 ports 100Base-Tx/1000Base-T and 100/1000Base-T1 Ethernet interface |
| Ethernet End          | RJ45 with TE MATEnet or Rosenberger H-MTD                            |
| Isolation             | Network transformer/capacitor isolation                              |
| Power supply          | DC 9-32V   |
| Dimension             | 300mm x 120mm x 30 mm  |
| Operating Temperature | -40°C to 80°C  |
| Enclosure Material    | Aluminum   |

## Ordering Information

| Product name          | Model  | Feature description |
|-----------------------|--------|---------------------|
| Bus interface devices | TE1105 | 5-port T1/Tx switch |

## Shipping list

- TE1105 main unit
- DC 12V power adapter
- USB cable
- TE MATEnet or Rosenberger H-MTD cables  
(not included, need to be ordered separately)

