100/1000BASE–T1

MEDIACONVERTER
MATEnet

The new generation of physical layer conversion between Automotive Ethernet and your PC system

100/1000BASE-T1
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technica
engineering

DESCRIPTION

The **100/1000BASE-T1 MediaConverter MATEnet** from Technica Engineering establishes one direct point-to-point conversion between automotive ECUs. It transmits data frames directly from the **physical layer 100BASE-T1 or 1000BASE-T1** and the **physical layer 100BASE-TX or 1000BASE-T**, with a deterministic and constant delay of roundabout 2 µs.

No packets are stored or modified. Technica Engineering's new generation of MediaConverters adapts to market trends and provides the user with innovative, practical solutions (such as End-of-Line (EoL) testing, Automated Hardware-in-the-Loop (HiL), and DV and PV applications) for multipurpose testing under diverse scenarios.

It enables a seamless Standard Ethernet to automotive Ethernet conversion, through the combination of **RJ-45 and MATEnet connectors.**

The **100/1000BASE-T1 MediaConverter MATEnet** is the ideal **smart, easy-to-manage solution** for working efficiently with Automotive Ethernet. It uses Automotive grade connectors and fulfils the increasing need for testing validation solutions of state-of-the-art communication technologies in next generations of vehicle systems.

FEATURES

- ✔ 1 Port 100/1000BASE-T1 Ethernet with Marvell 88Q2112 A2 Transceiver
- ✔ 100/1000 MBit/s Fullduplex on a single Unshielded Twisted Pair with MATEnet connector
- ✔ 1 Port 100BASE-TX / 1000BASE-T Ethernet with RJ-45 connector
- ✔ Power MQS connector
- ✔ System MQS connector
  - Input enabling "force slave mode" and "force link down"
  - Output providing signal for "link status")
- ✔ 4 DIP Switches for easy configuration
  - Master/Slave
  - 100/1000 Mbit/s
  - Legacy/IEEE
  - Frame Generation
- ✔ Status LEDs
- ✔ Robust stainless-steel case
- ✔ Size 89 x 72 x 28 mm

CONTROL SYSTEM/ LOGGER	Standard Gigabit Ethernet (RJ-45)/ MATEnet Connector	100/1000BASE-T1 MEDIACONVERTER	100/1000 BASE-T1	100/1000 BASE-T1 DEVICE