technica
engineering

100/1000BASE–T1
MEDIACONVERTER
MATEnet

APPLICATION

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

100/1000BASE-T1
MEDIACONVERTER MATEnet

DESCRIPTION

The **100/1000BASE-T1 MediaConverter MATEnet** from Technica Engineering establishes one direct point-to-point connection between your Automotive Ethernet ECU and any Standard Gigabit system. 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 AND FACTS

- ✔ 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 Standard Ethernet with RJ-45 connector
- ✔ Power MQS connector
- ✔ System MQS connector
    - Input signal enabling "force slave mode" and "force link down"
    - Output signal providing signal "link status"
- ✔ 4 DIP Switches for easy configuration
    - Master/Slave
    - 100/1000 Mbit/s
    - Legacy/IEEE Mode
    - Frame Generation
- ✔ Status LEDs
- ✔ Voltage range: 12 volts and 24 volts
- ✔ Robust galvanized sheet steel with black powder coated housing
- ✔ Size 89 x 72 x 28 mm

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