

100/1000BASE-T1
MEDIA CONVERTER
H-MTD

APPLICATION

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

100/1000BASE-T1 MEDIACONVERTER H-MTD



DESCRIPTION

The **100/1000BASE-T1 MediaConverter H-MTD** 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 μ s.

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 H-MTD connectors**.

The **100/1000BASE-T1 MediaConverter H-MTD** 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 Automotive Ethernet with Marvell 88Q2112 A2 Transceiver (100/1000 MBit/s Full duplex on a single Twisted Pair with H-MTD 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)/
H-MTD Connector



**100/1000BASE-T1
MEDIACONVERTER**

100/1000BASE-T1

**DEVICE
100/1000BASE-T1**