

# 1000BASE-T1 EMC CONVERTER

## APPLICATION

**The ideal solution for working quickly  
and efficiently with 1000BASE-T1 for EMC  
measurements**

# 1000BASE-T1 EMC CONVERTER



## DESCRIPTION

The **1000BASE-T1 Converter EMC** from Technica Engineering is a smart tool used in automotive product development to test electronic control units (ECUs) under EMC conditions. It creates the link between an on-board vehicle network based on 1000BASE-T1 (Automotive Gigabit Ethernet) and the Ethernet-based computer belonging to the testing and development set-up.

The device provides an SFP Port to connect a standard Ethernet RJ45 module or to use an optical Gigabit Ethernet SFP Module. No packages are stored or modified within the device. The process is a direct physical layer conversion, where the hardware was especially developed and optimized to provide the best possible EMC behavior.

Thus, the **1000BASE-T1 Converter EMC** is the ideal solution for working quickly and efficiently with the new 1000BASE-T1 technology, and it is the ideal device to perform EMC test through the optical interface.

## FEATURES

- ✓ Converts IEEE 1000BASE-T1 (1000 MBit/s full duplex) 1x unshielded twisted pair (UTP) to Gigabit Ethernet (1000BASE-T or optical Ethernet)
- ✓ Master/slave configuration
- ✓ SFP Module allows optical Ethernet connection or standard Gigabit Ethernet through RJ45 Connector
- ✓ Allows to perform EMC test through the optical interface
- ✓ Stainless steel housing
- ✓ Status LEDs
- ✓ Configuration DIP switches
- ✓ Automotive MateNET connector and cables included (Power, 1000BASE-T1)
- ✓ Size: 95 x 95 x 32mm

**CONTROL  
SYSTEM**

Gigabit Ethernet (SFP)

**1000BASE-T1  
EMC CONVERTER**

1000BASE-T1

**1000BASE-T1  
DEVICE**