

# HARDWARE AND SOFTWARE TOOLS FOR TESTING AND VALIDATING AUTOMOTIVE NETWORKS



### **CAPTURE MODULES**

Capture and log messages from a variety of bus topologies are captured, timestamped (the same timestamp across different bus systems) offers five variants to cover Automotive Ethernet (100BASE-T1 and 1000BASE-T1), as well as common IVN technologies (CAN, CAN-FD, FlexRay, LIN).

#### **CM MULTIGIGABIT**

CAPTURE YOUR AUTOMOTIVE MULTIGIGABIT TRAFFIC IN THE CAR WITHOUT INTERFERING THE ORIGINAL NETWORK



The **CM MultiGigabit**, enabled through new PHY technology, can be set to log three different data rates:

2.5 Gbit/s (2.5 GBASE-T1) 5 Gbit/s (5 GBASE-T1) 10 Gbit/s (10 GBASE-T1)

#### **CM CAN COMBO**

CAPTURE RELIABLY ALL RELEVANT IN-VEHICLE-NETWORK (IVN) TRAFFIC FROM DIFFERENT COMMUNICATION TECHNOLOGIES INSIDE THE VEHICLE



The CM CAN COMBO can capture traffic from the conventional CAN buses, as well as CAN-FD, FlexRay, and RS-232 can be captured without interfering with the original networks



# **MEDIA CONVERTORS**

Establish a physical layer conversion between Automotive Ethernet connections (100BASE-T1 or 1000BASE-T1) and any device with a standard Ethernet Network Interface Card (NIC) with an RJ-45 connector.

### 100BASE-T1 MEDIACONVERTER\_BCM



Converts IEEE 100BASE-T1 100 MBit/s full-duplex (1 x unshielded twisted pair -UTP) to Fast Ethernet 100BASE-TX

### **1000BASE-T1 MEDIACONVERTER**



Converts IEEE 1000BASE-T1 (1000 MBit/s full duplex) 1x unshielded twisted pair (UTP) to Gigabit Ethernet (1000BASE-T)

**EMBEDDED SYSTEMS** 

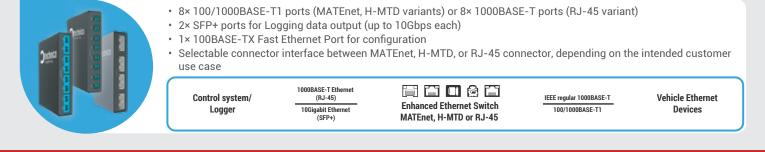
SOLUTIONS

# **SWITCH-BASED PRODUCTS**

Allow for a managed, multi-directional exchange of Ethernet messages

### **ENHANCED ETHERNET SWITCH**

AUTOMOTIVE ETHERNET SWITCH WITH AVB/TSN FEATURES TO TEST AND ANALYZE VEHICLE NETWORKS



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