

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, 1000BASE-T1 and 2.5/5/10/10GBASE-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

6x CAN/ CAN-FD	1x FLEXRAY 2x RS232/TTL	1x GIGABIT ETHERNET (RJ-45)	1x SYSTEM CONNECTOR
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MEDIA CONVERTORS

Establish a physical layer conversion between Automotive Ethernet connections (100BASE-T1, 1000BASE-T1, 2.5/5/10GBASE-T1, 10BASE-T1S) and any device with a standard Ethernet Network Interface Card (NIC) with an RJ-45 connector

MEDIA CONVERTOR 1000BASE-T1 MATENET/H-MTD



Converts between 100/1000BASE-T1 Automotive Ethernet and 100BASE-TX /1000BASE-T Standard Ethernet

NETWORK INTERFACER 10BASE-T1S



Acts as a communication hub, seamlessly routing data between 10BASE-T1S and point-to-point ports

SWITCH-BASED PRODUCTS

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

ENHANCED ETHERNET SWITCH MACSEC HYBRID

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



- 4x 100/1000BASE-T1, 4x 10/100/1000BASE-T, 2x SFP+ slots supporting up to 10 Gbits
- Provides a reliable gPTP/802.1AS-2011 automotive profile stack
- MACsec Feature Package supports the MKA (MACsec Key Agreement) protocol
- Selectable connector interface between MATEnet, H-MTD, or RJ-45 connector, depending on the intended customer use case

Control system/
Logger

1000BASE-T Ethernet
(RJ-45)
10Gigabit Ethernet
(SFP+)

Enhanced Ethernet Switch
MATEnet, H-MTD or RJ-45

IEEE regular 1000BASE-T
100/1000BASE-T1

Vehicle Ethernet
Devices

