

IVN2Eth Capture Module **CM LIN COMBO**

APPLICATION

Capture your LIN and analog signals in the car via an Ethernet uplink

IVN2Eth Capture Module CM LIN COMBO



DESCRIPTION

While the cars of the future start using high-speed-in vehicle-network (IVN) technologies, for the Body Domain, the classic analog signals and the cost-efficient LIN Bus are still important technologies.

The **CM LIN Combo** enables automotive test engineers to reliably capture LIN traffic as well as differential and grounded analog signals and send these within the payload of Ethernet MAC II frames via 100BASE-T1 or Standard Ethernet (RJ-45), with the corresponding time and source information of when and where they were captured.

The traffic is captured without influencing the network and is delivered with a 40 ns time resolution timestamp.

Several Capture Modules, of the same or different types, can be combined and used together on the same measurement network. Thanks to the built-in time synchronization, all the devices will act as one, allowing to share a common understanding of time for all the connected buses and Ethernet networks (100BASE-T1 & 1000BASE-T1). This makes Capture Modules very scalable and allows to add other in-vehicle-network (IVN) technologies to the measurement setup.

Many additional features make this device appropriate for general-purpose testing, such as the definition of active filters, triggering of user events, traffic injection.

FEATURES AND FACTS

- ✓ 10x LIN
- ✓ 4x analog inputs
- ✓ 2x analog inputs(galvanically isolated)
- ✓ Technically Enhanced Capture Module Protocol (TECMP), which is royalty free and provides timestamping, source information, etc. (natively supported in Wireshark (v3.4), GPL C libraries for conversion to PCAPNG available at <https://github.com/Technica-Engineering>)
- ✓ Configure easily via webserver or via dedicated UDP frames
- ✓ Network Time Synchronization supporting several standards- allows to synchronize multiple CM CAN Combos or other Capture Module variants
- ✓ Cascading for synchronization of multiple devices
- ✓ Source Timestamping with 40 ns resolution
- ✓ High-speed startup
- ✓ Startup buffer
- ✓ Output traffic shaping
- ✓ LIN Transmission (with a license)
- ✓ Rotary switch for manual configuration of the device IP address (Gbit, RJ-45)
- ✓ Wake-up capable (also via CAN/-FD)
- ✓ Extended power mode for car integration
- ✓ Optimized for automotive and automotive-like use-cases
- ✓ High voltage range: 12 to 24 volt DC
- ✓ Robust galvanized sheet steel with black powder coated housing
- ✓ Size: 129x 121 (133) x 32 mm

**TECMP is compatible with PLP Protocol*

4x
ANALOG 2x GALV.



1x
STANDARD GIGABIT
ETHERNET (RJ-45)



10x
LIN



1x
SYSTEM
CONNECTOR

