

IVN2Eth Capture Module CM CAN COMBO

APPLICATION

Capture your CAN(-FD), FlexRay and RS-232 traffic in the car via an Ethernet uplink

IVN2Eth Capture Module CM CAN COMBO







DESCRIPTION

In the era of autonomous and connected cars, one key challenge for the test and validation is the reliable capture of relevant in-vehicle-network (IVN) traffic from different communication technologies inside the vehicle.

With the **CM CAN Combo** from Technica Engineering, the traffic from the conventional CAN buses, as well as CAN-FD, FlexRay, and RS-232 can be captured without interfering with the original networks.

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

- ✓ 6x CAN / CAN-FD
- ✓ 1x FlexRay (channel A)
- ✓ 2x RS-232/TTL
- 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
- CAN/CAN-FD/FlexRay Transmission (with a license)
- ✓ Rotary switch for manual configuration of the device IP address (Gbit, RI-45)
- ✓ Wake-up capable (also via CAN/-FD)
- Extended power mode for car integration
- Optimized for automotive and automotivelike use-cases
- ✓ High voltage range: 12 to 24 volt DC
- Robust galvanized sheet steel with black powder coated housing
- ✓ Size: 129x 120 (134) x 32 mm

*TECMP is compatible with PLP Protocol

6x CAN/ CAN-FD

1x FLEXRAY 2x RS232/TTL

1x GIGABIT ETHERNET (RJ-45)

1x SYSTEM CONNECTOR

