

Interfacing CAN (FD) with Ethernet and USB

Kvaser has introduced the DIN Rail SE410S-X10 Ethernet-to-CAN(FD) multi-channel interface with I/O support via add-on modules. Another novelty is the USBcan Pro 4xHS interface with four CAN (FD) channels.



Kvaser DIN Rail SE410S-X10 (Source: Kvaser)

Kvaser DIN Rail SE410S-X10 is an Ethernet-to-CAN (FD) interface with four galvanically-isolated CAN (FD) channels, support for I/Os via add-on modules, and a 16-GiB flash storage. The device acts as a managing controller for the add-ons. The CAN-based higher-layer protocols J1939, CANopen, NMEA 2000, and Devicenet are supported. The housing has a mounting clip for DIN-rail installation without tools. The communication between the I/O modules and the introduced device uses an optical connection without cables in between. The I/O modules can be controlled either from Kvaser's CANlib software over Ethernet or directly on the unit using Kvaser T programming language. Thus, user-developed programs can be created, stored, and operated locally on the device, without requiring a connected PC. Gateway functionality can be programmed as well.

The ability to host user-developed programs for applications such as node simulation, watchdog timer functions, or CAN-to-CAN-FD translation make vehicle test cells, dynamometers (and many more) suitable environments for the SE410S-X10.

Portable USB-to-CAN (FD) interface

The Kvaser USBcan Pro 4xHS is an USB-to-CAN (FD) interface capable of handling transmission and reception of CAN (FD) frames with a high time-stamp precision (resolution of 1 μ s). It includes T Programming and Kvaser Magisync, which allows to synchronize time stamps across multiple Magisync-enabled devices without extra wires. The unit is the Pro version of the USBcan Light 4xHS, which is used for connecting of four Classical CAN networks to a PC or a mobile computer.

CAN FD connections with bit-rates up to 8 Mbit/s (with correct physical layer implementation) are supported. CAN networks running J1939, CANopen, NMEA 2000, and Devicenet higher-layer protocols can be interfaced with the device. The silent mode for analysis tools enables to listen to the networks without interfering. The interface with galvanically-isolated CAN (FD) channels operates at temperatures from -40 °C to +85 °C and is powered from the USB.



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Kvaser USBcan Pro 4xHS connects up to four CAN (FD) networks to a PC or a mobile computer (Source: Kvaser)