Programmable Ethernet to CAN / CAN FD interface

Kvaser has announced the release of a multichannel, programmable Ethernet to Classical CAN / CAN FD interface for DIN Rail mounting.

Programming function makes this suitable for automotive test cell or end-of-line production test (Photo: Kvaser)

The Kvaser DIN Rail SE400S-X10 has four CAN / CAN FD channels and supports up to four, optional Kvaser DIN Rail SE400S-X10 I/O add-on modules; analog, digital and relay. Ideal for automotive test cell and end-of-line production test applications, the SE400S-X10 FD can be programmed with diagnostics routines to test automotive body control modules, for example.

"The Kvaser DIN Rail SE400S-X10 is Kvaser's first DIN Rail-mounted product. As with all Kvaser products, the user-experience was our first thought and this DIN Rail series has an uncharacteristically easy and robust attachment mechanism, with a smart clip system and optical bus connection that greatly facilitate installation," commented Lars-Berno Fredriksson, president of Kvaser.

The base module and I/O share the same mounting system, ensuring that installation requires no tools. The I/O modules communicate with the DIN Rail SE400S-X10 using an optical bus, eliminating the need for connecting cables and making the addition or removal of I/O the simplest of operations. The I/O can be controlled either from Kvaser's standard API, within Kvaser CANlib SDK (over Ethernet), or directly from the master unit using the company's t programs.

A simple "t" program (C-like code, of which plenty of examples can be found within Kvaser CANlib) transforms the Kvaser DIN Rail SE400S-X10 into a gateway or bridge between up to four CAN networks. When used as a bridge, the DIN Rail SE400S-X10 can filter out certain messages and, if needed, inject faults or modify signal values.

Capable of sending up to 20 000 messages per second, per CAN channel, this high-performance Ethernet to CAN / CAN FD interface is well-suited to connected-factory environments. The Ethernet connection facilitates communication with the world beyond the production-floor; users can connect the device to their intranet and the CAN information gathered can be recorded, analyzed and stored at a remote location, whether that is across the corridor or on another continent.

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