CAN Newsletter Online

CAN FD MULTI-CHANNEL BOARD

Automotive test systems and industrial applications

HMS Networks extended its Ixxat PC-interface portfolio with the multi-channel board CAN-IB 640/PCIe. It offers four channels each for CAN FD/Classical CAN and LIN connectivity.

(Source: HMS)

Automotive systems and industrial applications often include several parallel Classical CAN and CAN FD networks which must be connected to test, monitoring, and/or control systems at the same time. With the multi-channel CAN-IB 640/PCIe card, the company enables network connectivity and integration. Featuring four channels for CAN FD/Classical CAN and LIN connectivity respectively, the product covers the needs of various applications with only one card. And, if even more connectivity is required, several cards can be operated in parallel – a feature supported by all CAN boards from the company.

The product is an active PC-interface with an onboard micro-controller system, which is able to read, timestamp, and filter amounts of data in real-time. The network connection is done via two D-Sub 9 connectors, which are galvanically isolated to protect the card and the connected PC system.

Connection to the customer PC-application

The CAN interface boards come with extensive driver packages for Windows and Linux, including SocketCAN. The drivers allow development of customer-specific applications, most notably since all Ixxat PCI-cards can be interfaced from the application in the same way. This enables switching between different types of PC-interfaces, e.g. USB, PCIe, PCIe Mini, and Ethernet, without needing to adapt the customer application software each time.

A monitoring tool for Windows is included in the scope of delivery, but the company also offers numerous additional analysis and configuration tools for different purposes and use cases. In addition to the proprietary driver packages, standardized APIs (application programming interface) such as the J2534-Passthru or D-PDU API, are available as options, enabling connectivity to 3rd party tools which use these APIs.

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