

EMBEDDED WORLD 2017

## Several products with CAN FD

HMS now extends its CAN FD product portfolio by introducing several Ixxat CAN FD products. This includes PC interfaces, bridges/routers, gateways, and analysis tools.

The Ixxat PC interfaces for CAN FD and CAN are typically used for control, monitoring, analysis, or configuration purposes. HMS now introduces the Ixxat USB-to-CAN FD – a USB-connected version which is ideal for mobile analysis and configuration. More interfaces will soon be supported, as Ixxat CAN FD versions for Mini PCIe, PCIe 104, XMC, and PMC are currently being developed (CAN FD on PCIe is already supported by the existing Ixxat CAN-IB 500/PCIe and CAN-IB 600/PCIe).

Due to the range of form factors, Ixxat CAN FD interfaces can be adapted to various applications. Depending on the version, the CAN FD interfaces offer up to two CAN FD and up to four CAN channels. Customers can also optionally choose galvanic decoupling or add other available interfaces, for example for LIN network connectivity. All CAN FD interfaces come with free-of-charge driver packages – VCI for Windows as well as ECI for Linux and real-time operating systems (VxWorks and RTX for CAN FD and CAN, Intime and QNX for CAN). The driver packages support all Ixxat PC interfaces with a uniform programming interface. Due to this, CAN-users can change the card type without changing the customer application.



(Photo: HMS)

### Bridges and routers

With the Ixxat CANbridge NT 420, HMS is introducing a bridge/router with CAN and CAN FD support within one DIN rail mounted product as already mentioned in detail in this article. Also described in this article, HMS launching the Ixxat CAN@net NT 420 Ethernet-to-CAN FD gateway.

The Ixxat CANbridge NT and CAN@net NT are configured and managed through a Windows application. Both star and tree network topologies are allowed, as well as galvanic protection of network segments. The canAnalyser is a Windows-based analysis tool for CAN – and now also CAN FD. It targets developers and service technicians who are developing or commissioning CAN FD devices and systems. Besides online display and analysis of CAN FD raw data or interpreted signals, the canAnalyser offers message transmission as it can send messages once, cyclically, or as command-controlled sequences. Furthermore, messages can be recorded to hard disk, which enables offline analysis of the message traffic. Customer-specific functions can be achieved via a .NET interface to the product. A free, basic version of the tool, the "canAnalyser Mini", is included with all PC interfaces and available for download on the Ixxat webpage.

All of the products will be shown at the [Embedded World](#) 2017 in Nuremberg, Germany at stand 1-550 in hall 1. The exhibition takes place from March 14 to 16.

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