

CAN FD extension and Linux driver

Star Cooperation offers interface cards for connecting automotive bus systems with test bench computers. The Flexcard PMC-II with extensions for CAN FD, CAN-HS, Ethernet, and Flexray is for universal use in day-to-day testing.



The interface card Flexcard PMC-II now comes with an extension for CAN FD (Photo: Star Cooperation)

The Flexcard PMC-II has eight bus interfaces that can be utilized with plug-in bus driver modules. So far, these were available for CAN-HS, Ethernet and Flexray, while the card's capabilities are again enhanced by a CAN FD extension.

Each CAN FD extension module comes with two CAN FD transceivers with a maximum data rate of 5 Mbit/s for CAN FD transceiver. The applicable mode can be set up within the card's driver, in which both the ISO as well as the non-ISO mode are supported due to compatibility reasons. For all the card's bus interfaces (CAN, Flexray, Ethernet), a synchronized time stamp is generated with a resolution of a micro-second. For example, this enables the user to play the log data of different bus systems generated with this method with chronological synchronism.

As before, it is possible to synchronize several Flexcards PMC-II through one trigger inlet. Also, connecting 100BASE-T1 networks works via an external adapter. The company has also developed a Linux driver for the kernel version 4.15. As a result, users can now also use the Flexcard PMC-II for bus systems CAN FD, CAN-HS, Flexray, and 100BASE-T1. The Linux driver supports DMA and 64-bit host systems. Users will benefit from in-creased performance during data transfer while relieving the processor, said the company.

In addition, users can synchronize multiple Flexcard PMC-II using a trigger input.

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