

## CAN FD products at the Embedded World

Peak (Germany) presents two CAN FD interfaces for USB ports, as well as suitable software for Windows at the Embedded World 2014.

THE PCAN-USB FD (1 x CAN FD) AND THE PCAN-USB Pro FD (2 x CAN FD, 2 x LIN) can achieve bit-rates up to 12 Mbit/s in the data part of CAN FD frames. The CAN FD channels are galvanically isolated from the other device electronics up to 500 V. The range of CAN interfaces for various PC connectors is complemented by the PCAN-Express-Card 34. Laptops with narrow Express-Card slot (34 mm) are connected to CAN networks with small latency.



Peak's CAN FD products and other innovations at the Embedded World 2014  
(Photo: Peak)

The PCAN-GPS sensor module will also be presented at the Embedded World, which takes place from February 25<sup>th</sup> to 27<sup>th</sup> in Nuremberg. It's CAN connection has been developed for the determination of position and orientation. The data comes from a receiver for several navigation satellite systems, an electronic compass, an accelerometer, and a gyroscope. For the micro-controller, which is based on the ARM Cortex M4 kernel, firmware can be created in C or C++. Code examples are included. The featured products are expected to be available in the second and third quarter of 2014.

### Background: About CAN FD

With CAN FD (Flexible Data rate) the CAN specification has been extended with properties, which are primarily designed for larger amounts of data. Higher data bit rates up to 12 Mbit/s and the use of up to 64 data bytes in a CAN frame are the main criteria. CAN FD is downward-compatible to CAN, thus CAN FD nodes can be used in existing CAN networks. However, in this case the CAN FD extensions are not applicable.