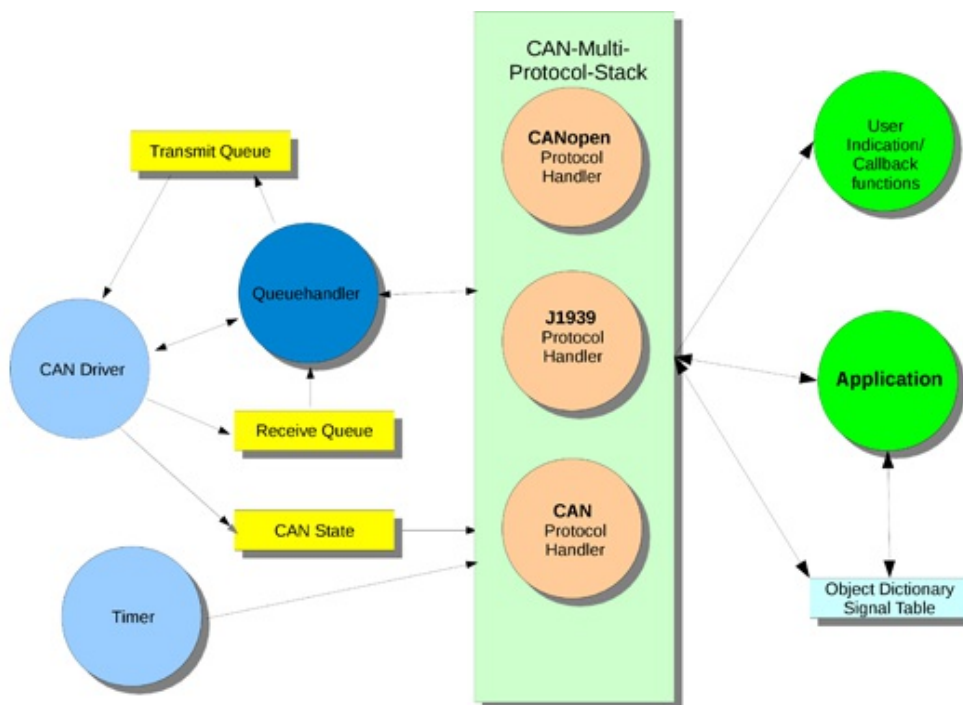


SPS IPC DRIVES 2015

## Protocol stack supports CANopen, J1939, and more

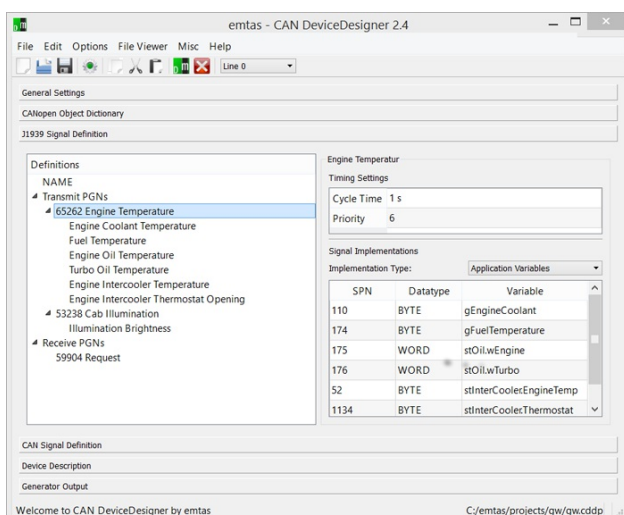
At the SPS IPC Drives in Nuremberg, Germany, Emtas presents its CAN Multi Protocol Stack, which supports CANopen, J1939, and proprietary CAN protocols.



CAN Multi Protocol Stack (Photo: Emtas)

BASED ON EMTAS' UNIFORM CAN DRIVER INTERFACE and the universal CAN queue the CAN Multi Protocol Stack from the company supports various CAN based protocols such as CANopen, Energybus, SAE J1939, raw CAN, and proprietary protocols in one application.

The configuration of the CAN Multi Protocol stack is done by the graphical tool CAN Device Designer which is included in the scope of delivery. Based on its profile and signal databases for CANopen, Energybus, and J1939 the user can select the data that shall be transmitted or received and the relevant services. The stack supports all CANopen Master and slave features and J1939 broadcast and transport protocols in order to send larger data packets.



CAN Device Designer by Emtas (Photo: Emtas)

Even raw CAN message and manufacturer-specific protocols based on them are supported. Using the CAN Device Designer application variables can be mapped into CAN messages and the stack handles the transmission and reception automatically. Time triggered or event triggered transmission are supported. On reception of a defined CAN message the application variables are updated automatically by the stack.

The stack is available for a large number of micro controllers (STM32, Kinetis, XMC4000, dsPIC44, Tiva, etc.) and operating systems (Linux, Windows, RTX64, etc.). The CAN Device designer tool can be used on both Windows and Linux.