CAN Newsletter Online

CAN (FD) ROUTER AND DATA LOGGER

# Remotely controllable via Internet

**Peak-System Technik launched the PCAN-Router Pro FD with six CAN (FD) channels. It is optionally available with an RJ-45 Ethernet interface.**

*PCAN-Router Pro FD can be controlled remotely via Ethernet using a Websocket connection (Source: Peak-System Technik)*

The six CAN (FD) interfaces can be configured separately. They can be used as Classical CAN or CAN FD (ISO 11898-2:2016 compliant or non-ISO compliant) channels. Appropriate bit-rates from 40 kbit/s up to 12 Mbit/s are supported, informed the manufacturer. The implemented NXP TJA1043 CAN transceivers provide wake-up functionality. Alternative pluggable transceiver modules are available on request. CAN FD interfaces are accessible via 9-pin D-Sub connectors and include a switchable termination separately for each channel. Further, the device supports diverse analog and digital I/Os as well as a USB for log data access.

The router is equipped with a firmware for recording of CAN (FD) data traffic. Configuration of CAN channels, IP connection, and recording settings is done via a text file, which does not require any programming skills. Configuration and log files are stored on the internal 16-GiB eMMC memory or on an inserted SD card. Conversion of logged data to various output formats is done using the Windows-based Peak-Converter software. Memory access is possible via Ethernet using FTP (file transfer protocol). In addition, the device can be controlled remotely via Ethernet using a Websocket connection. An example website with a Java Script implementation of a Websocket client is included in the development package. This website can be used to connect with the router. The supplied development package also includes various C/C++ programming examples for router utilizing.

The device is based on the Arm-Cortex-M7 micro-controller STM32F765NIH6. To show the status of CAN channels, memory cards, and power supply, LEDs are integrated in the aluminum device casing. Defined beep patterns inform about tracing start, end, and error events. An 8-$V_{DC}$ to 32-$V_{DC}$ power supply is protected against overvoltage and reverse polarity. A backup battery for defined switch-off behavior (e.g. for log data saving) can be added via a dedicated slot. Possible operating temperature ranges from -40 °C to +85 °C.

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