

Bluetooth gateway for CAN FD

Embedded System Solutions (ESS) has expanded its protocol converter family. The CANgineFD_BT gateway links CAN FD networks to Bluetooth.

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The shown gateway can link CAN FD networks via Bluetooth to smartphones and tablets (Photo: ESS)

ESS (Germany) has developed the CANgineFD_BT module featuring a 32-bit Cortex-M4 micro-controller clocked at 80 MHz. According to the supplier, it supports CAN FD bit rates up to 10 Mbit/s. The built-in Bluetooth interface complies with Class-1. Due to the Bluetooth serial port profile (SSP) and the documented ASCII protocol, integration into Bluetooth-capable platform is child's play, stated the German company.

The product is available in two firmware versions: The generic version uses an extension of the popular Serial CAN Protocol (SLCAN) to send and to receive any CAN and CAN FD frames at freely selectable bit rates. The CANopen FD version complies with CiA 1301. It uses on the Bluetooth-side simple serial commands to access the object dictionary entries on all connected CANopen FD devices. This turns the gateway into a device for the configuration or maintenance of CANopen FD networks. It enables remote access to CANopen FD devices.

ESS was established in 2001 and is by now a privately owned company. The firm is specialized in the development of products based on micro-controllers. Communication adapters for commercial vehicles represent a significant part of the portfolio. Further product areas are CANopen products in chip and module form, as well as customer-specific developments and development services.

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