

# CAN Newsletter Online

ON-BOARD DIAGNOSTICS

## App for vehicle testing

Softing (Germany) has developed an iPhone/iPad app, which displays the diagnostic data received via an OBD-2 WLAN adapter. The adapter is connectable to the CAN-based diagnostic interface of passenger cars.



*With the OBD app the user can read all in-vehicle diagnostic data on their smartphone or tablet computer (Photo: Softing)*



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THE APP IS AVAILABLE FOR APPLE PRODUCTS as well as for Android-based devices. Via WLAN the mobile devices are connected to the HSC-VCI adapter, which is connected to the CAN-based diagnostic interface. The adapter powered by a 32-bit micro-controller provides one high-speed (ISO 11898-2) and one low-speed (ISO 11898-3) port. It supports several diagnostic standards (e.g. ISO 22900-2: Protocol data unit application programming interface).

The provided app can interpret the data according to ISO 15031-1 to -6 (Communication between vehicle and external equipment for emission-related diagnostics), ISO 15765-4 (Diagnostic communication over CAN) as well as SAE J1979 (same as 15765-5) and SAE J2012 (Diagnostic trouble code definitions). The diagnostic data received via the adapter can be stored in the mobile device and can be analyzed later on. Further functions include clearing of fault memory by shaking the smartphone and sending diagnostic data by email. It is also possible to start and stop tracing the CAN network on the mobile device. The velocity, engine speed, and cooling temperature can be displayed at a glance. The app also interprets the diagnostic trouble codes and displays them symbolically.