

# CAN Newsletter Online

VEHICLE COMMUNICATION INTERFACE

## For mobile service applications

With its Bluetooth/USB as interface to the PC and CAN/K-Line as interface to the vehicle the VIN-ING 1000 by Softing qualifies particularly for mobile service applications.

The VCIs (Vehicle Communication Interfaces) of the VIN-ING family are oriented toward current trends. Vehicle communication concepts can be implemented with a hardware design tailored to the tasks. The first two interfaces of the product family, the VIN-ING 600 and VIN-ING 1000, are now available.

The VIN-ING 1000 is designed for universal use in the manufacturing and after-sales service area. The implementation of two separate CAN channels and two K-lines are possible. Flexibility is attained with the possibility of software updates and extendibility due to the USB host interface which is accessible from the outside. With its Bluetooth/USB as interface to the PC and CAN/K-Line as interface to the vehicle, the VIN-ING 1000 qualifies particularly for mobile service applications. Real-time execution of vehicle bus protocols directly on the interface provides fast reaction time and real-time behavior independent from the PC operating system. The product comes in an aluminum housing with D-Sub and USB connector, as well as electrical isolation between host and vehicle interfaces.



The VIN-ING 1000 (Photo: Samtec)

The standardized D-PDU API (ISO 22900-2) supports the following communication protocols: SAE J1939, UDS (ISO 14229) and, KWP 2000 (ISO 14230, ISO 15765). The VCI can also be used as an alternative Pass-Thru device in accordance with SAE J2534. Together with the diagnostic tool set DTS from Softing, it is possible to implement a complete solution in accordance with MCD-3D standard ISO 22900-3 with ODX technology. The Bluetooth interface enables the product for mobile usage in service and development. The Bluetooth interface makes it possible to connect mobile devices like tablets and smartphones to the vehicles through new applications.

### VIN-ING 600

For applications with DoIP (Diagnostics over Internet Protocol), the adaption to a vehicle using an Ethernet cable is already familiar. The VIN-ING 600 was developed as substitute cabling to facilitate the desired mobility required for many areas of application. This WLAN-Ethernet bridge is a way of ensuring communication between a smartphone with a diagnostic app or the [Diagnostic Tool Set DTS8](#) and a vehicle with Ethernet access.

Other variants of the product family will follow.

[CW](#)