

Diagnostic interface with two CAN channels

The interfaces of Softing's Vining family aim to make vehicle communication concepts easy to implement with a hardware design tailored to the task. The Vining 1000 comes with two high-speed CAN channels.

At the moment, the first two interfaces of the product family, Vining 600 and Vining 1000, are available. The Vining 1000 was designed for use in the manufacturing and after-sales service area. Two separate high-speed CAN channels and two K-lines are implemented in the compact and sturdy design. One of the two CAN channels can be switched via software between CAN high-speed and CAN fault-tolerant.

Data preprocessing and protocol handling in the interface ensure fast response times and reliable real-time behavior regardless of the system environment (e.g. software running on the PC). The communication protocols UDS (ISO 14229), KWP 2000 (ISO 14230, ISO 15765), as well as J1939 are supported via the standardized D-PDU API (ISO 22900-2).

The Vining 1000 can be updated in a software update and can be extended for a range of application scenarios via its USB host interface. Mobile applications can be realized with an optional Bluetooth dongle and upgrading can take place with a USB memory stick. If required, versions with only one CAN high-speed interface or with a sturdy, lockable USB cable are made available. As an additional option, digital and analog I/O interfaces continue to be available.

Vehicle cables with different types of diagnostic connector are on offer for the D-SUB port. Thanks to the shock-absorbing plastic protective caps, the device is protected from detrimental mechanical effects from the outside. Furthermore, the interface avoids possible damage to the vehicle. It is encased in an aluminum housing that measures 75 mm x 90 mm x 30 mm.

The Vining 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. This interface does not have any CAN channels.



*The Vining 1000 has an operating temperature of -40 °C to +70 °C
(Photo: Softing)*

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