

Invented for life



BOSCH

MTS 6531

Vehicle communication interface for OEMs





Drawing on 30 years of experience with diagnostic environments, Bosch engineers these products in-house and produces the VCIs at one of its factories in Germany. Large volume requirements can also be met, for example for globally launching a new VCI.

Workshop efficiency

This interface sets industry benchmark for J2534 VCI pass-through performance with its fast processor, optimized software structure, and faster boot-up. The software also facilitates reliable strategies for securely reprogramming immobilizer systems.

Embedded applications

The Bosch MTS 6531 VCI includes an embedded runtime framework that lets the VCI run embedded applications.

Hardware features

The MTS 6531 supports an extended temperature range from 20° to 70°C, sleep/wake modes, and IP54 ingress protection. sleep/wake modes, IP54 protection.

Workshop flexibility: embedded web server

An embedded web server supports external browser-based display devices via HTML for an extended range of service bay applications.

Support for future vehicle architectures

DoIP (diagnostics over IP), CAN FD (CAN with flexible data rate) and three independent CAN controllers let the MTS 6531 support the latest, most advanced vehicle electrical architectures.

Extendible support for vehicle protocols

MTS 6531 can support virtually any vehicle communication protocol, including current industry-standard protocols, OEM proprietary, and legacy protocols. The expansion board provides a cost-effective path for adding OEM-specified and new protocols later.

Support for 24-volt systems

The MTS 6531 VCI input voltage range is from 6 to 32 volts. The MTS 6531 supports 24-volt systems used in light and heavy trucks.



MTS 6531 with P2P Wi-Fi: kit contents

MTS 6531

Vehicle communication interface

4 LEDs
Indicate VCI status at a glance

Rubber end boots
For VCI and vehicle protection



1 power button and 2 programmable buttons (F1 and F2)
Available for future functionality

2 high-speed USB host connectors (Type A)
Used for trigger interface or other accessory



Power-through diagnostic connector or USB type B connector
Used for trigger interface or other accessory

1 high-speed USB interface (Type B)
PC interface connection



1 Ethernet (10/100)
PC interface connection or DoIP vehicle communication

Product information

Supported standards:

- ISO 22900-2: Diagnostic protocol data unit (D-PDU API)
- J2534-1: Recommended practice for pass-thru vehicle programming
- J2534-2: Pass-thru extended features

PC host interfaces:

- USB 2.0 - type B connectors (x1)
- 802.11 b/g/n Wi-Fi routers
- Ethernet 10/100

VCI Manager (PC software):

- Device busy/wireless detection indication
- Software and firmware update tool
- Wired/wireless connection management

VCI physical layer interfaces:

- Three CAN-FD channels
- One Ethernet channel
- Two UART channels (K and L lines)
- One J1850
- One J1708

Protocol interfaces:

- SAE J1939 (3 independent channels)
- SAE J1708/J1587
- SAE J1850 VPW / PWM
- SAE 2740 (GM UART)
- SAE J2818 - KWP1281
- SAE J2284 at 125/250/500 kbps
- SAE J2411 (GM single-wire CAN)
- SAE J2610
- ISO 13400 - DoIP
- ISO 15765
- ISO 14230 - KWP 2K
- ISO 9141-2
- ISO 11898-1 CAN-FD
- ISO 11898-3 (fault-tolerant CAN)
- GMW 3110 (GM LAN)
- ISO 11992-1 DW CAN

Other available services:

- Engineering services available to assist customers with product integration
- Global network of product support centers to support the workshops

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