

MTS 6512

Vehicle Communication Interface



BOSCH

Invented for life



MTS 6512 for Focused Applications

Optimized for vehicles with CAN and K-Line communication requirements only, the MTS 6512 offers OEMs a wide range of applications far beyond standard vehicle communication. Workshops appreciate its robust design and high performance features.

Workshop efficiency

The MTS 6512 has an excellent pass-through performance due to its 320 MHz ARM processor and optimized software structure enables high speed ECU reprogramming. In addition, the VCI software facilitates secure immobilizer system reprogramming strategies.

More than a pass-thru device – Embedded applications

The Bosch MTS 6512 VCI includes an embedded runtime framework which enables the VCI to run embedded applications. This allows OEM's to deploy embedded applications such as: drive recorder, parking lot re-flash (standalone re-flash), and diagnostic runtime. Its 4 GB Micro SD-card can be used to store drive recorder log files, re-flash images, etc.

Workshop flexibility – Embedded web-server

An embedded web server supports external browser-based display devices (e.g. smart phones) via HTML for an extended range of service bay use cases.

Easy update management

VCI firmware can be easily updated by the user via the VCI manager software. Additionally, FPGA tech-

nology allows for updating of the vehicle communications logic in the field.

Compliant with SAE J2534 and ISO 22900 (MVCI)

Supports worldwide legislated communication standards, with a wide range of supported protocols.

Reliable support of CAN bus architecture

The MTS 6512 allows switching of two CAN pairs with up to 1 Mbit/sec on each channel. Reliable on-board ECU communication is ensured with the ISO 16845 certified CAN cores in the FPGA.

Support of ISO 9141 und KWP 2000 legacy vehicles

Simultaneous communication on two separate K-Lines buses on primary and secondary K-Line pins.

Flexible host communication

Full-speed USB 2.0 for fast data communication as well as user-friendly wireless communication with WiFi 802.11 b/g/n certified for operation in more than 130 countries.

Field proven

More than 100,000 VCIs of the MTS 65xx product family have been deployed globally to OEM workshops.

Supported Standards

- ▶ D-PDU API (ISO 22900-2) for complete protocol abstraction
- ▶ J2534-1/-2 Pass-Thru

Vehicle Interfaces

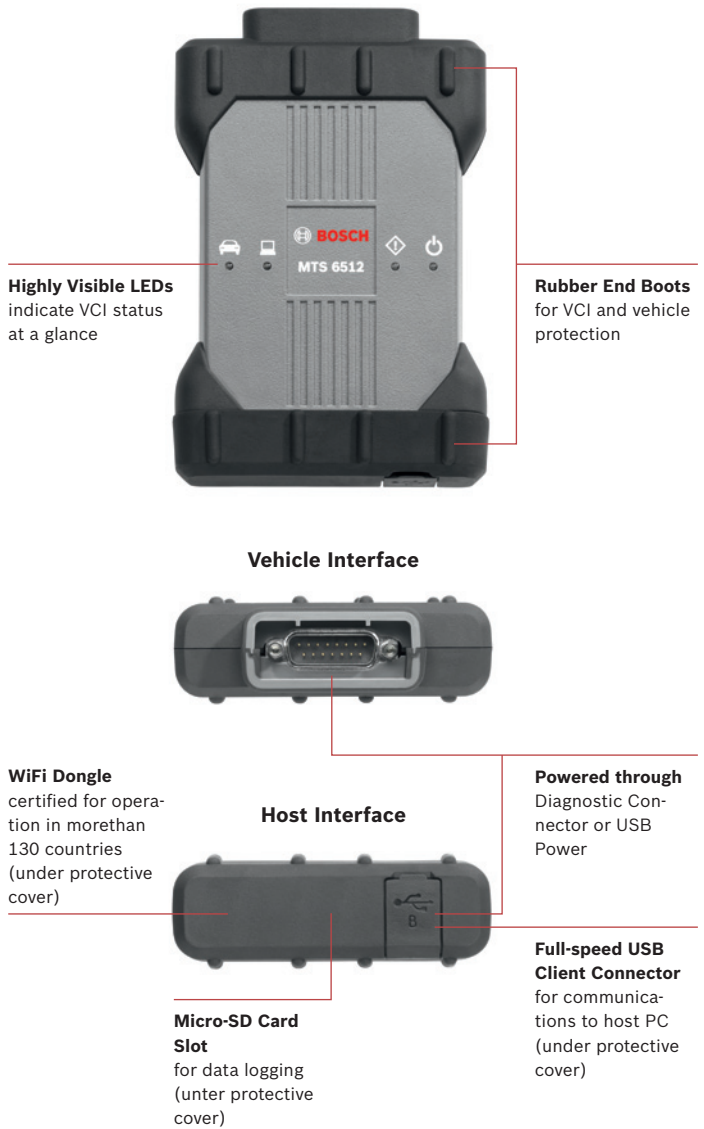
- ▶ CAN – 1 independent channel, 2 high speed transceivers
- ▶ UART – 2 independent channels
- ▶ ISO K-Line and L-Line

Host Interfaces

- ▶ Wired full-speed USB 2.0
- ▶ Wireless 802.11 b/g/n

Other Features

- ▶ Processor: PXA270 ARM processor, 320 MHz
- ▶ 4 GB micro SD card for mass storage
- ▶ Operating temperature range: 0 to +50 °C



Backed by Bosch Automotive Service Solutions

- ▶ 30 years of experience with vehicle diagnostic solutions for global OEMs
- ▶ Supported by a broad suite of complimentary diagnostic software and content authoring tools
- ▶ Engineering services available to assist our customers with product integration
- ▶ Global network of product support centers and distribution locations.