

ZD Box

Multifunctional Vehicle Simulation & Testing Tool



ZD Box

Features

- Supports Remote Access (http/FTP) via browser of computer and mobile device
- Supports BAP-ECU/ CAN signal simulations
- Real-time tracing und trace analysis of CAN/BAP, Ethernet, Serial Traces
- Signal Copy: Reproduction of ECU State from live CAN Communication (also for real vehicles)
- Independent licenses without extra software installation
- Flexible micro services system architecture with multiple deployment methods:
 - Public cloud service deployment
 - Local cloud service deployment
 - Stand-alone deployment



Product Specifications

4 × CAN	1 × USB 2.0
1 × Ethernet RJ45	2 × USB 3.0
1 × HDMI	1 × SD Card Slot
1 × BroadR-Reach® (Optional)	LTE/WIFI
Supports BAP LIN SERIAL ESOTRACE DLT SOME/IP FlexRay (A&B) (optional)	

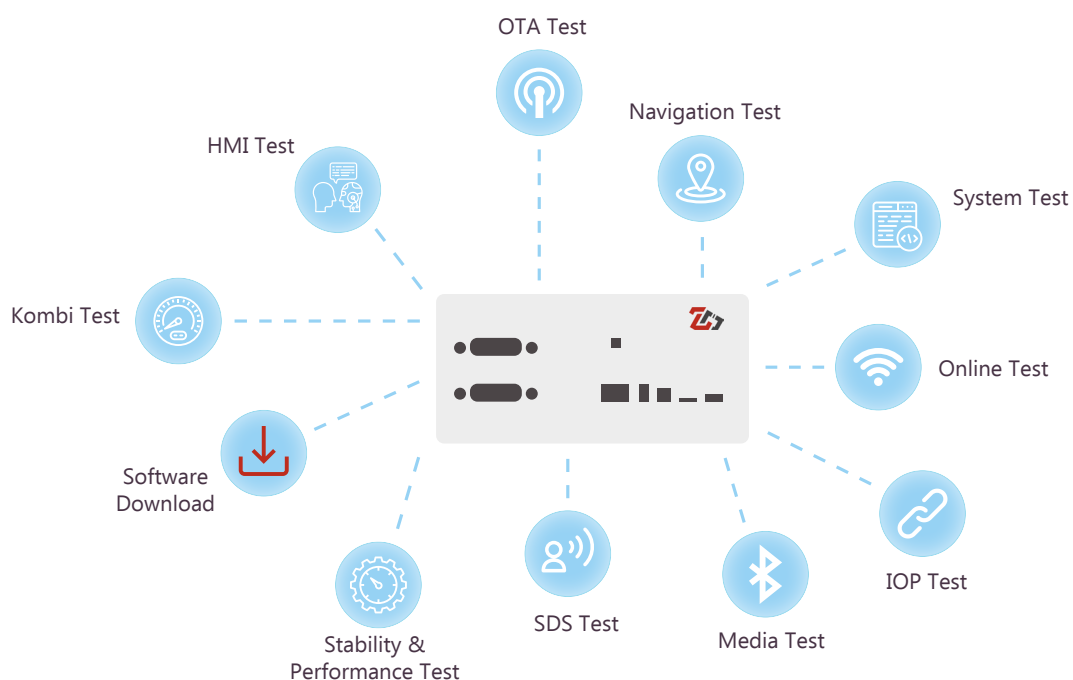
Individualized configuration and extensions can be realized according to specific customer needs.

Application Scenarios

As a test automation interface, ZD Box can help users build up and manage even the smallest test environment. Together with our assistance system such as Text Review Tool and IDE – Integrated Development Environment, ZD Box can perform automation tests in the fields of infotainment, hardware in the loop and V2X. It is a professional and practical simulation and testing tool with diverse functions and applications.

Infotainment Test Automation

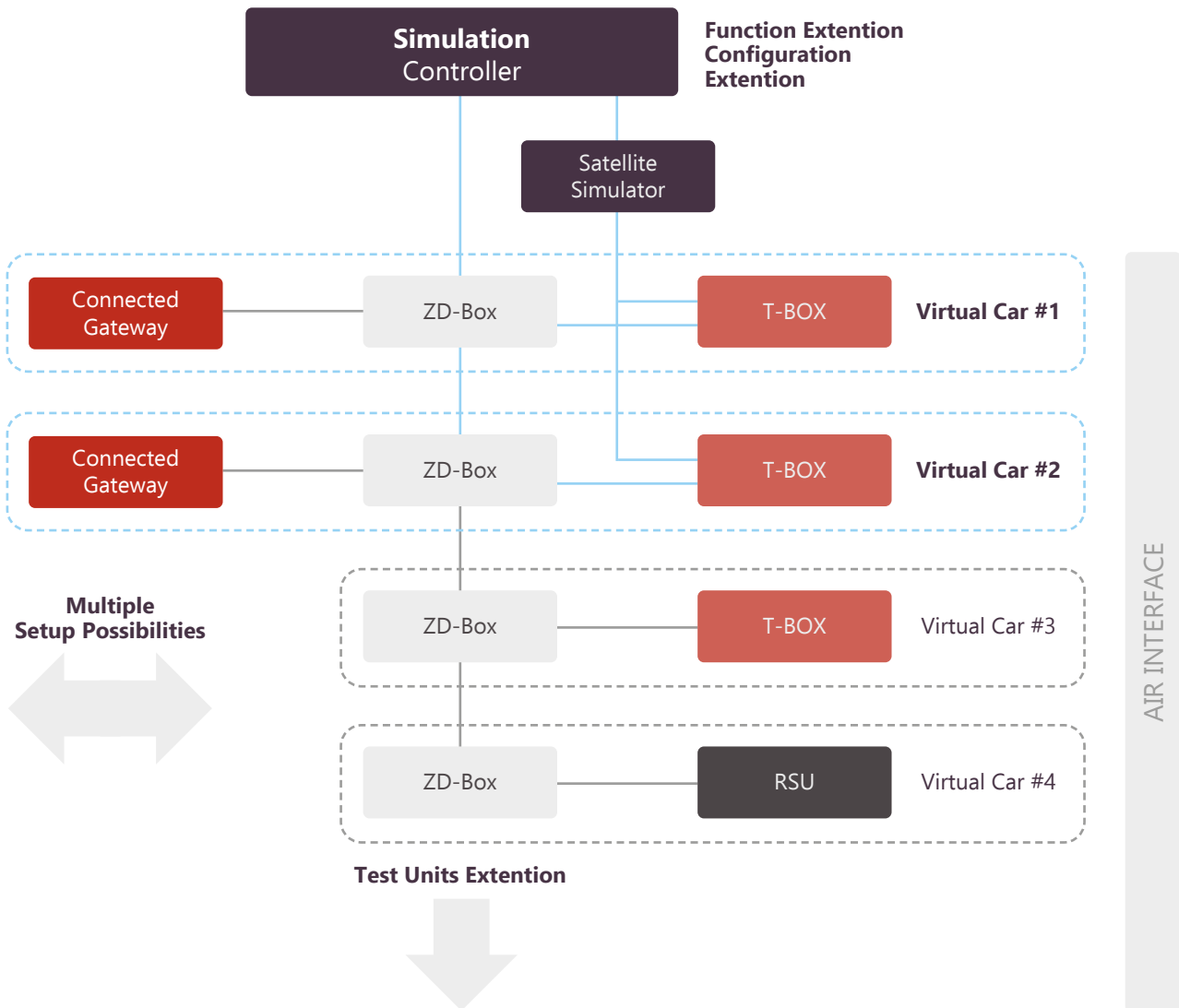
With the ZD-Box as a centre, all types of the infotainment tests can be performed automatically, which greatly enhances the test efficiency.



One of our important test automation projects is SDS (Speech dialog System). With an external sound card driver, we used ZD Box as the centre and Test Bench to achieve a fully closed loop testing process.

- This project has achieved the transformation from specification into test cases, voice input, voice playback, test case implementation and automatic report generation.
- Fully closed-loop testing process ensure the SDS automation free from external disturbances
- Testcase editor ease the way for testcase editing and able to generate large quantity of test scripts in once.

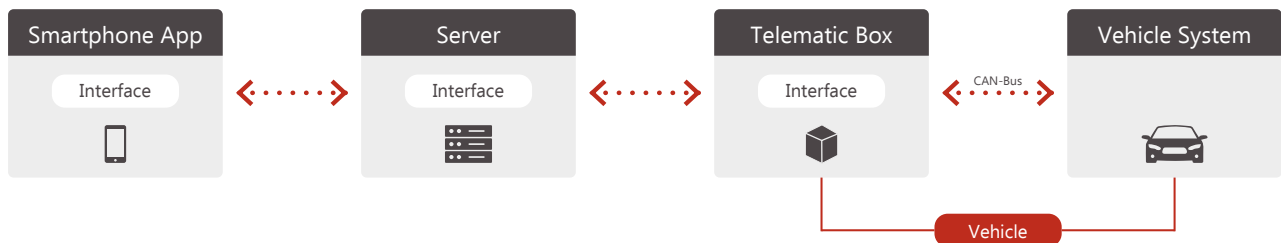
V2X Simulation Plattform



In the V2X Scenario, various ZD Box build up test units and enable Simulation Controller to realize the following functions:

- Web access from different locations
- Control and coordination simulator
- Install & execute test
- Test automation mechanism
- Visualized test scenarios

Vehicle simulation & Automation Platform



Our vehicle simulation & Automation Platform based on ZD-Box, can increase the performance of testing activities with intelligent test automation solutions, which reduces the development period and increases the performance of the whole business concept design.

Software in the loop

- Interface simulation of different function module via configuration file;
- Business logic simulation of different function module via configuration file

Software & Hardware in the loop

- Single target hardware in the simulated environment;
- Full coverage of different module function testing Hardware in the loop

Hardware in the loop

- End2End function automation testing;
- Trace monitoring system on each connection point.

Contact

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