# ZD Peripheral Products-Diverse Vehicle Signal Processing Tools



知迪汽车技术 ZD Automotive

## ZD Peripheral Products

As an expert in the automotive field, ZD has extensive project experience in hardware development and testing. Our hardware products cover application scenarios like data recording, vehicle bus simulation, signal generation, adaptation, conversion, sniffing, interception, etc. Our hardware products can be flexibly combined to build different application scenarios, which fully meet the rich and diverse hardware equipment needs of customers.

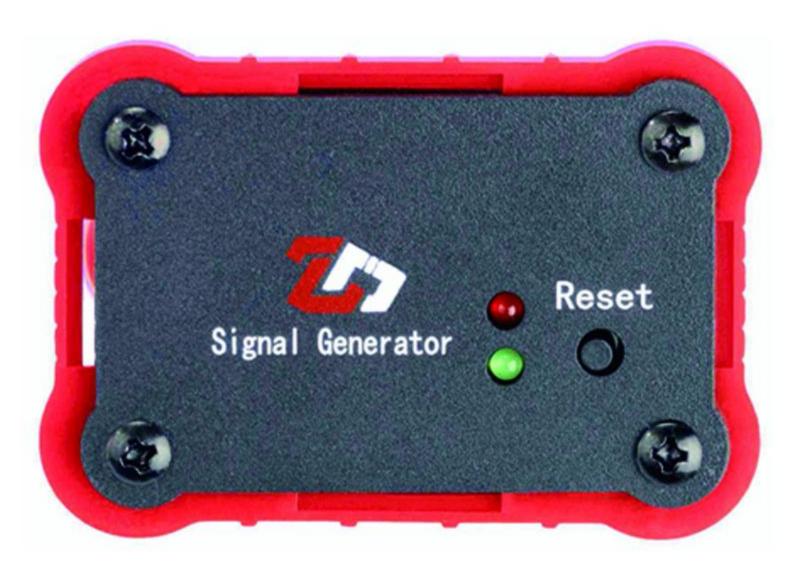


## ZD-SignalGenerator

Signal generator is essential for vehicle simulation. ZD SignalGenerator, based on a powerful microcontroller structure, can send, receive and convert various vehicle bus signals to achieve a variety of projects. Additionally, signal generators can be used in the design and test of electronic devices and the development of automotive electronic equipment.

#### Features

- Supports CAN/CAN FD/LIN/FlexRay(A+B)/1000Base-T1
- Selection between predefined functions using physical buttons
- Customizable according to user needs
- Real-time bus simulation, plug-and-play







## ZD-Link 1000

ZD-Link 1000 is a highspeed Automotive Ethernet adapter for desktop PCs and notebooks, which is compatible with Windows and Linux operating systems. It is a portable solution for collecting and analyzing vehicle Ethernet data. It is featured by high bandwidth and low latency. Its main function is to connect a PC to standard automotive ethernet through a USB interface.

#### Features

- Supports USB3.0 & USB2.0
- 100Mbps/1000Mbps Automotive Ethernet
- 1Complies with relevant standards such as OPEN Alliance, BroadR–Reach<sup>®</sup>, IEEE 802.3bw and IEEE 802.3bp
- Direct connection between ECU and PC







## ZD-Converter

ZD-Converter is a series of PC-side solutions for automotive Ethernet, which fulfills the requirements of converting, sniffing and intercepting signals. It is designed for the communication between standard Ethernet devices and ECUs with automotive ethernet interface.

■ ZD-Converter 1000
High Performance Automotive
Media Converter





■ ZD-Converter 1500 High-Performance Media Sniffer

ZD-Converter 2000 Programmable Multi-Functional Media-Converter, Sniffer & Interceptor



Specifications	ZD-Converter 1000	ZD-Converter 1500	ZD-Converter 2000
100/1000Base-T1	1	2	2
100/1000 Standard Ethernet	1	1	2
Configuration of Master/slave and speed	<b>√</b>	~	<b>√</b>
USB powered	<b>√</b>	<b>√</b>	<b>√</b>
Convert mode	<b>√</b>	<b>√</b>	<b>√</b>
Sniffer mode		<b>√</b>	<b>√</b>
Interception mode			<b>√</b>

### ZD-Shifter SU12

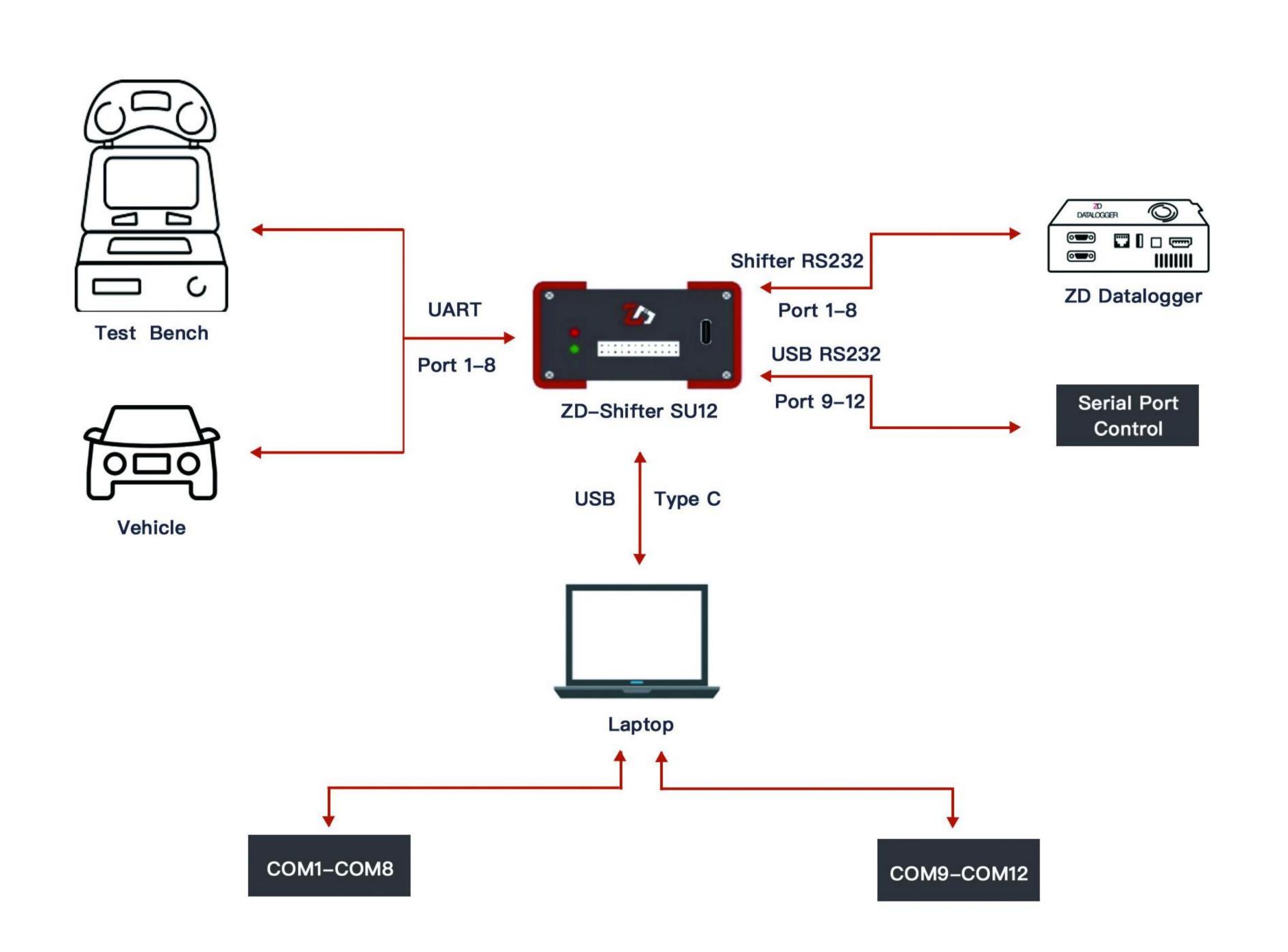
ZThe ZD-Shifter SU12 is a multifunctional signal level shifter supporting 12 RS232 serial ports. It is designed for interconnecting UART devices and other serial interfaces using RS232 standard.







ZD-Shifter SU12 interconnects various devices using serial communication on RS232 standard. This innovative all-in-one level converter supports simultaneous bi-directional communication between USB, RS232 and UART interfaces with advantages of small size, low power consumption and high performance.



### ZD-USBSwitch

ZD-USBSwitch is a device for connecting and switching control of multiple USB ports.

The device can be used for automatic compatibility testing of up to four USB 2.0/3.0 hosts and four USB 2.0/3.0 devices. The host side can be connected to ZD Box, ECUs, PC, etc. while device-side is suitable for flash drives, smartphones, tablets etc. Using ZD-USBS witch, users can control the connection between host and device manually or through the program remotely.

The ZD-USBSwitch also supports 4-way relay switching for intelligent switch control.



#### **Features**

- 4 x 4 USB2.0/3.0 switch and 4 relay control
- Supports manual control of the USB connections between host and device
- Supports remote control via USB Type-C or RS232 serial port
- Built-in Flash to save configuration, recovering last operation mode after restart
- LED indicator shows USB connection and relay switch status
- LED indicator shows USB connection status and relay switch status
- Anti reverse charging, over current protection and ESP safety

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