ValueCAN 4-1

Low-Cost, High-Performance CAN-USB Interface with IP65 Aluminum Enclosure

The Ultimate CAN to USB Tool

ValueCAN 4-1 is an exceptionally priced CAN to USB tool with no compromises. ValueCAN 4-1 boasts high quality and high performance with to up to 1 Megabit 100% bandwidth low latency transmit and receive performance, ECU Flashing Support via J1534/RP1210/DLL, and electrical isolation. ValueCAN 4-1 is built upon the the field proven ValueCAN 3 series which has sold over 60000 units to industry, military and automotive areas.

Developer Package Options

The ValueCAN 4-1 Developer Package is designed for beginners with CAN. It includes full access to Vehicle Spy Pro software features for four months. Find out more online: http://store.intrepidcs.com/product-p/vcan4-1a-vspy-pro-dev.htm

Many Uses

ValueCAN 4-1 can be used in a multitude of ways. Common uses include high speed flashing, ECU simulation, dealership CAN dongle, standalone mode for automating tests, and many more.

Superior Engineering:

Valuecan 4-1 is part of Intrepid's ValueCAN 4 series - a series designed to be a high quality solution for CAN FD and backward compatible with CAN 2.0. Features include software controlled CAN termination, increased buffer size, improved USB latency performance, and standalone operating capability using a 5V USB power supply. USB Type A and Type C options are available. The ValueCAN 4 series has certified drivers for Windows 7, 8, 8.1 and 10.

ValueCAN 4 is fully isolated from the PC and its isolation layer is self powered from USB, eliminating the need for external power for the CAN transceiver. ValueCAN 4's isolation, a feature not common on low cost interfaces, resolves issues with grounding or noise affecting your PC and its communications. ValueCAN 4 is also electrically hardened to survive an abusive environment including reverse battery and electrical transients. To make wiring easy, the device pinout is printed clearly on the housing. Finally, ValueCAN 4 is backed by a 1 year warranty.
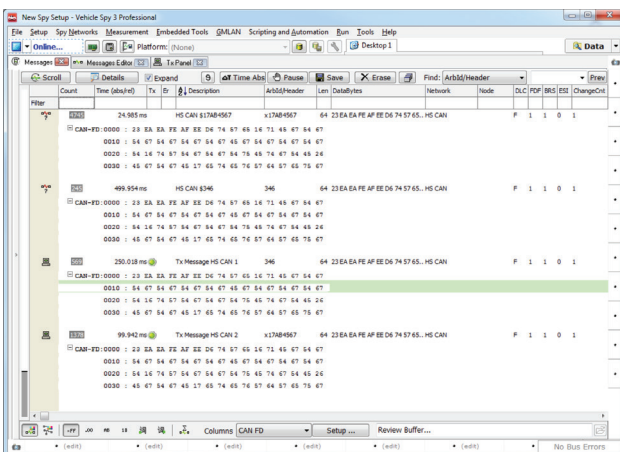
High Performance

ValueCAN 4-1 has been tested and verified to operate on high bandwidth CAN networks. This includes 100% utilization at 1Mbps.

Real Time Acceleration and Stand Alone Mode Enable High Speed Flashing, and ECU simulation

ValueCAN 4 has the ability to load real-time function block scripts created with Vehicle Spy Professional software. These scripts then execute in real time at microsecond resolution. The scripts can be controlled and monitored with a PC application or operate in standalone mode.

High Level Protocols Supported

J1939, OBD2 on CAN, Keyword Protocol over CAN, UDS diagnostics, CCP/XCP, DeviceNet, and CANOpen are all compatible with ValueCAN 4. We offer cables for J1939 and automotive diagnostics on CAN.

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Software Support: Turn-Key

A copy of Vehicle Spy 3 Trial Edition is included with ValueCAN 4. This program is a powerful vehicle bus analyzer for monitoring messages and configuring baud rates. The professional user will want to upgrade to the full Vehicle Spy 3 software. Vehicle Spy lets you filter traffic, decode message data, build scripts, simulate other nodes, and build GUIs to control, log and view your data.

Software Support: Create Your Application Using the Included Intrepid DLL API, J2534 API, or RP1210 API

For those who wish to write their own applications, ValueCAN 4 includes a DLL and helpful examples for Python, Visual C++, C++ Builder, LabWindows CVI, LabVIEW, Java, MATLAB, Delphi, Excel, and Visual Basic. For more information on the DLL, please see the neoVI DLL documentation (ValueCAN 4 uses the neoVI DLL).

General Specifications:
- USB OS support: Windows 7 / 8 / 8.1 / 10 / and Linux (coming soon)
- Fully USB-powered with electrical isolation.
- Industry-standard 9-pin D-sub connector pinout
- Integrated 1 meter USB cable with Type-A and Type-C options
- LEDs indicate transmission or reception of CAN traffic as well as error states for each channel
- J2534 compliant for CAN and ISO15765
- RP1210 compliant for CAN and J1939
- Field-upgradeable flash firmware
- Vehicle Spy Trial setup tool for baud rates
- CE compliant
- One-year limited warranty
- Dimensions: 6.4 × 4.1 × 2.1 cm (2.52" × 1.60" × 0.82")
- Weight: 91 g (0.20 lb)

Network Specifications – CAN
- 1x CAN 2.0 channel (Bosch MCAN core) with MCP MCP2562FD PHY
- Compatible with DeviceNet and CANopen
- Double-buffered CAN transmission
- CCP protocol hardware acceleration
- Listen-only mode support

Timing Specifications
- 64-bit timestamping to accuracy of 25 ns with no overflow

9-Pin Connector Pinout

Pin	Description	Pin	Description
1	NC	6	GND
2	CAN 1 Low	7	CAN 1 High
3	GND	8	-
4	-	9	-
5	GND (Shield)		

Ordering Information

Part Number	Description
VCAN4-1A	ValueCAN 4-1 (Type-A USB)
VCAN4-1C	ValueCAN 4-1 (Type-C USB)

For pricing see website. Please contact Intrepid Control Systems for details. Volume discounts and private label distribution agreements available. All trademarks mentioned are trademarks of their respective companies. Specifications subject to change without notice.

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