

J1939 Source Code

J1939 Software

The J1939 protocol stack was designed to meet the demanding needs of the high speed Controller Area Network (CAN). The J1939 source code uses a high performance modular design and has a simple API. It is written entirely in the C programming language and can be used on any platform with a 8/16/32 bit microcontroller, either with or without an operating system. Benchmarks have shown the stack to be 700% more efficient than other commercially available solutions.

Deliverables

Deliverables include the J1939 protocol stack, well documented source code, a complete user's manual, and examples showing how to send and receive J1939 messages.

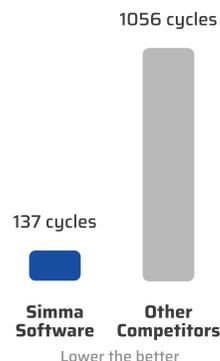
Features

The J1939 source code allows for all of the standard usages of J1939 including:

- Sending and receiving of messages
- Message timeout monitoring
- Message filtering
- Request message processing
- Diagnostic message processing
- BAM and CM transport protocol processing
- Static and arbitrary address claim

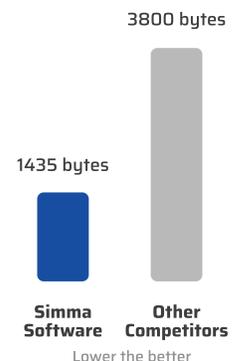
CPU Cycles per Message

Approx. for C2000 CPU



Code Size Comparison

Approx. for C2000 CPU



Simma Software, Inc. specializes in real-time embedded software for the automotive industry.

Products and services include protocol stacks, bootloaders, device drivers, training, and consultation on the following technologies:

J1939, CAN, J1587, J1708, J2497, J1922, ISO 15765, CANopen, UDS, XCP, LIN.

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