

NMEA 2000 Source Code

NMEA 2000 Software

The NMEA 2000 protocol stack was designed to meet the demanding needs of the high speed Controller Area Network (CAN). The NMEA 2000 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 600% more efficient than other commercially available solutions.

Deliverables

Deliverables include the NMEA 2000 protocol stack, well documented source code, a complete user's manual, and examples showing how to send and receive NMEA 2000 messages.

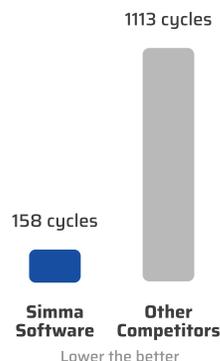
Features

The NMEA 2000 source code allows for:

- Sending and receiving of messages
- Message filtering
- Request message processing
Diagnostic message processing
- BAM and CM transport protocol processing
- Static and arbitrary address claim
- Fast packet support
- PGN list group functions

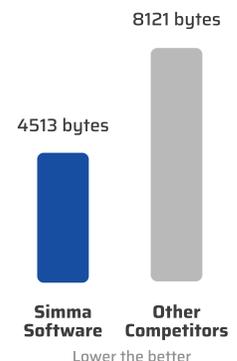
CPU Cycles per Message

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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