CANopen Software

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The CANopen protocol stack was designed to meet the demanding needs of the high speed Controller Area Network (CAN). The CANopen 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 800% more efficient than other commercially available solutions.
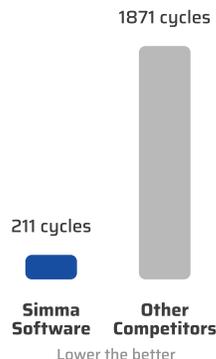
Deliverables

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

Features

- Multi-channel support
- RPDO producer and consumer (up to 512)
- TPDO producer and consumer (up to 512)
- Expedited SDO transfers
- NMT support including heartbeat producer
- Small ROM/RAM requirements
- Supports fifty 8/16/32-bit CPUs and DSPs
- Runs with or without an RTOS
- Full ANSI C source code provided
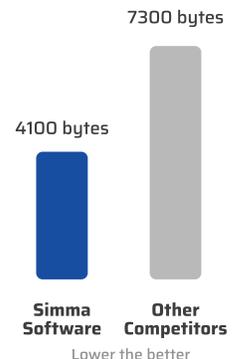- PDO with event and inhibit timers

CPU Cycles
per Message

Approx. for C2000 CPU

1871 cycles

211 cycles

Simma Software	Other Competitors

Lower the better

Code Size
Comparison

Approx. for C2000 CPU

7300 bytes

4100 bytes

Simma Software	Other Competitors

Lower the better

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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