

Overview

The VNA-SA, with Binary Boost™, is a standalone vehicle network interface microcontroller which allows any host processor with a UART, SPI, or I²C interface to simultaneously communicate on all three vehicle networks.

The VNA-SA supports dual J1939/CAN interfaces, with auto baud detection, and a single J1587/J1708 interface. All interfaces are certified for zero packet loss with continuous 100% bus load.

Power Savings

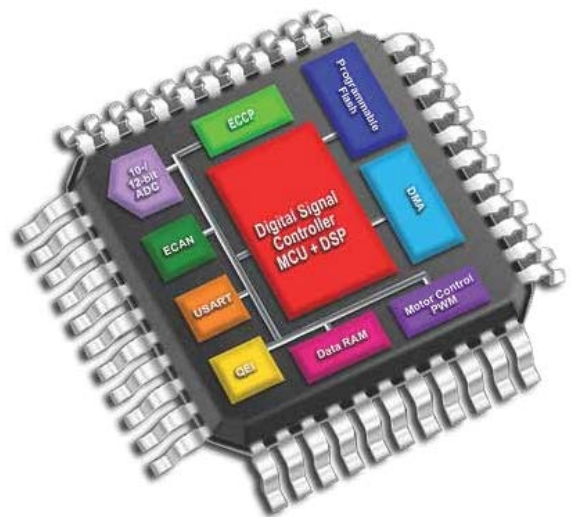
All VNA devices (VNA-232, VNA-USB, and VNA-SA) avoid vehicle battery drain by automatically entering deep sleep mode when idle.

Binary Boost™

Binary Boost™ is a simple and efficient technology for doubling the bandwidth between the host and VNA-SA.

Features

- J1587/J1708 x1, with 5.2.2.1 compliance
- J1939/CAN x2, with auto baud (250K and 500K)
- UART, from 9.6Kbps to 1Mbps
- SPI, up to 10Mbps
- Internal message buffering
- 200 message filters or pass-all mode
- Collision detection, with automatic retries
- Field programmable
- SAE J1939-82 certified
- Automatic deep sleep mode (< 1mA)



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, J1850, J1979, ISO 15765, OBD-II, CANopen.

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