**CAN STACK (ISO 11898) FOR IN-VEHICLE NETWORKING**

**FACT-SHEET**

**MEMORY REQUIREMENTS:**
The memory requirement of the CAN Protocol Stack vary, depending on the configuration of the Tx and Rx messages for the CAN IF layer.

- **ROM:** 5KB
- **RAM:** 2KB

**APPLICATIONS OF THE CAN SOFTWARE STACK IN AUTOMOTIVE INDUSTRY**
CAN stack is the nervous system of the In-Vehicle Networking (for both passenger and commercial vehicle applications).

Due to the critical task of facilitating inter-ECU communications, CAN Stack is deployed in several automotive applications including:

- Advanced Driver Assistance System (ADAS), Body Control Module (BCM)
- Infotainment System
- Battery Management System in Electric Vehicles

**BUSINESS ENGAGEMENT MODEL AND OVERVIEW**
We offer our pre-tested and read-to-deploy CAN software solution under a one-time licensing fee model. This engagement model has been designed to offer host of benefits for our customers. The following are some of such benefits:

- As a customer, your organization will own the Source Code as well as the IP rights of the CAN Software Stack.
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Several Automotive OEMs and Suppliers, across the US, Europe, India, and China, have benefitted from this engagement model. They have successfully configured and integrated our CAN Software Solution, in multiple global production programs.

**DETAILS OF THE SOFTWARE PACKAGE: CAN STACK**
Our CAN stack software package consists of the CAN Stack Source Code and all the APIs, required to facilitate stack integration with the customer application.

This CAN Stack has been developed in compliance with the ISO-11898 Standard.

Important components of our ready-to-integrate CAN stack

- **CAN Driver:** Responsible for data abstraction between physical layer and the upper layers of the software solution. Also performs hardware filtering of messages and signals

- **CAN IF:** CAN Interface comes as a ready-to-deploy layer which can be configured based on CAN matrix. PC based automation tool is also available, to ensure faster configuration

- **CAN Network Management:** This layer coordinates the transition from the normal network operation to bus-sleep mode of the network.
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FEATURES

- Supports standard baud-rates of 125, 250 and 500 kbps
- Acceptance Filtering and Software Filtering of Messages and Signals
- PC Based Tool for DBC to auto-code generation
- CAN conformance Tested Data Link Layer
- Built-in error handling feature of CAN BUS off
- Support for all major MCU families at device driver level

CAN STACK INTEGRATION AND SUPPORT SERVICES

- Device Drivers development for microcontrollers like Renesas, Fujitsu, Ti, etc.
- Static configuration of CAN IF layer (Tx and Rx messages) from the CAN Matrix.
- Support for PC Based tool for DBC to configuration file generation
- Support for integration of PC tools and production environment
- Support for integration of UDS over ISOTP for Bootloader and Diagnostics
- CAN Conformance Testing of Data Link Layer with Vector tools, like CAN Stress
- End-to-end Testing Services (Unit, Integration and Functional Testing)

GET IN TOUCH WITH OUR TEAM

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