Memory Requirements:
The standard memory requirements are as follows:

ROM - 15Kb
RAM - 3 Kb

Application of OBD II Stack in Automotive:

OBD II stack is widely used across the automotive Industry. This stack is best suited for passenger cars and light commercial vehicles. Following are some examples of such applications:

• Vehicle Diagnostic applications like emission control and monitoring of major engine components.
• Telematics Unit
• Fleet Management System
• Electronic Logging Device (ELD)

Engagement Model and Overview:

Leverage the benefits of one-time licensing fee model for this stable, pre-tested and industry recognized OBD II protocol stack. Under this business model, we offer IP rights and the complete source code of the OBD II stack. This facilitates our customers to integrate the stack across different projects and/or product lines.

This pre-packaged OBD II software stack solution can be implemented in an Automotive ECU product as a server, in an External Tool Kit (like a scanner) as a client or in Telematics unit as a slave.

OBD II Solution Package:

Our OBD II stack is designed and developed in compliance with ISO 15031 Standard.

The software package consists of a complete source code and OBD API which helps in integration of the OBD II stack with the target application and Hardware Layer. The standard solution package includes the following:

• ISO 15031 standard complaint OBD services
• ISO 15765 standard complaint OBD over CAN module (CAN TP Layer)
• VPW/PWM drivers to support OBD over J1850
• ISO 14230 complaint UART/K-Line drivers to support OBD over K-Line
• ISO 9141-2 complaint UART drivers to support OBD over ISO9141-2

Features:

• Supports all the Functional Address and Physical Address.
• Auto protocol detection across CAN, K-line, ISO9141 and 17850.
• Supports all the OBD modes: Mode 01, 02, 03 and so on.
• cfg.c and cfg.h files consist of the configurable OBD PIDs.
• OS independent: Compatible with Non-OS, RTOS, and Linux environments.
• Platform independent: integrated with 8 bit, 16 bit and 32 bit microcontroller (Freescale, Renesas, PIC, Fujitsu)
Integration, Testing and Support Services for ECU and After-Market Products:

- Implementation of physical layers (CAN, J1850, K-Line and more) as per the project requirement
- Integration of the stack with the target application and hardware platform.
- Development, testing and maintenance support for After-Market Products for Telematics, ADAS, Remote Vehicle Diagnostic applications.

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