**Engagement Model and Overview**

We offer our Board Support Package (BSP) on a one-time license fee model. This model makes our customers the owner of the entire BSP source code along with the solution IP rights.

This implies that the customer becomes entitled to re-use the BSP solution across multiple projects.

A number of trusted and global automotive OEMs and Suppliers have leveraged this business model for successful integration of board support packages, with their several vehicle production programs.

**BSP design: Solution Highlights and Hardware expertise**

Embitel offers ready-to-deploy Board Support Package (BSP) reference design solution. This BSP solution has been designed for deployment across all major hardware platforms, popularly used for various automotive applications.

In addition to BSP reference design solution, we also provide custom board support package solution that is designed as per your specific project requirements.

Following are some of the hardware platforms, for which our team has project delivery experience:

1. Freescale (S12G128, MPC56XX)
2. Renesas (RL 78, RH 850)
3. Fujitsu, Texas, Atmel, STMicroelectronics and Cypress

**Salient Features**

- Low-level drivers such as CAN, SPI, LIN, MCU, GPT and others are part of the package.
- HAL (Hardware Abstraction Libraries).
- HAL layer component supports major 8/16/32 bit microcontroller platforms.
- HAL layer can be customized on the basis of target hardware platform.
- Integration-level and module-level testing and verification performed.
- MISRA-C Compliant Code
- Conformance test (with multiple test-cases) for LIN and CAN bus system.
- Compliant with both AUTOSAR and non-AUTOSAR architecture depending on customer requirements.

**What’s inside our Board Support Package?**

Our Board Support Package comprises the hardware abstraction libraries and low-level drivers that are required for efficient board bring-up.

The HALs and the drivers can be customized on the basis of number of CAN, ADC and PWM Channels.

The following components are part of the complete Board Support package:
UDS Stack Integration, Testing and Support Services

- Device driver development to allow OS to communicate with the hardware components
- Hardware Abstraction Layer development for hardware initialization, memory management and more
- Board Support Package customization
- Testing and Verification services including unit, functional and integration testing

- Safety module development including RAM/ROM corruption test, CPU overload test, program flow test etc.
- Fault code memory integration
- ECU state manager module development and integration
- Support and Maintenance services at any phase of vehicle testing, post BSP deployment

Get in touch with Our Team

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