**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

**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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