

AUTOSAR COMPLIANT SEAT MODULE

Overview

Tata Elxsi developed, tested, and released AUTOSAR compliant Seat Module

- Migration to AUTOSAR 4.0.3 Architecture provided by Electro Bit
- Auto Generated SWC for Diagnostics

SEAT MODULES

- Driver Seat Module
- Passenger Seat Module
- Rear Left Seat Module
- Rear Right Seat Module
- Rear Seat Module

Scope

- Develop System Architecture
- Configuration of AUTOSAR BSW Stack
- Configuration and generation of RTE
- Development of Software Components (SWC)
- Converting the existing 18MY Application Software to AUTOSAR Software components
- Migration of existing Simulink models to MATLAB Version 2018a
- Perform MIL and SIL testing for Seat SWC
- AUTOSAR compliant code generation of Software Components
- Integration of the Application, BSW stack, MCAL, and generate VBF files
- Integration testing with different SWC
- Development of features like Heated Seats, Climate Seats, and Interior lighting
- Perform HIL testing

ISO 26262 ASIL A Compliance | ASPICE 3.0

Features

- 18 Way Seat movements
- Convenient seat fold
- Easy Entry/ Exit
- OTR/ OTU*
- Haptic Feedback
- Heated Seats
- Climate Seats
- Interior Lighting

Environment

- SPC584B70E Micro
- DOORS
- System Desk
- MATLAB
- EB Treos Studio
- Wind River Diab
- Tessy
- Dspace Scalexio Simulator