

VEHICLE COMMUNICATION

The perception of vehicle is now a days is seen as software. As the number of vehicle variants has increased significantly in the recent years, vehicle manufacturers plan to reduce the development time and the cost. The challenge is to manage the development of vehicle network systems.

DE has the expertise to provide communication software solutions for vehicle Networks At the Vehicle level, ECU level and at the Chip level. DE has the competency in supporting the following network protocols & standards: Class 2, J1850, LIN, Ford UBP, SCP and J1939. Automotive Diagnostics protocols: KWP 2000, ISO 9141, ISO 15765, J1699 and standards RP1210 and J2534. DE can support in the Multimedia network protocols like MOST, Blue tooth, 802.11x.

➤	Network strategy development, design, implementation
➤	Protocol stack implementation for various micros / OS
➤	Embedded communication components for various micros / OS
➤	Diagnostics implementation
➤	Data logging
➤	Porting
➤	Enhancements / Maintenance
➤	Validation

Solutions:

1. ECU Solutions

- Control design, modeling
- Rapid Prototyping of control algorithms
- Hardware and software implementation (Traditional, Autosar)
- Testing and Validation (HIL, Model verification, Test Automation)
- ECU embedded communication software / Autosar communication component development
- ECU Diagnostics and calibration
- ECU Prototype manufacturing

2. In-Vehicle-Network Solutions

- Network design, simulation
- Testing and validation
- Network Interface tools & APIs
- Application development

3. Vehicle Diagnostic Solutions

- Production testing tools
- Service diagnostic tools
- Remote diagnostic interfaces and API's
- Applications (OBD, ASAM, J2534, Autosar)