

FlexRay Seminar – Contents



Objectives of the seminar

The seminar provides a basic knowledge of time-triggered communication systems, the differences between these and event-driven systems, and the influences of these differences on the application design within FlexRay networks. Course participants will receive an introduction to the FlexRay protocol standard and the physical layer, as well as learning by practical exercises how to configure a FlexRay node and the overall network.

Who should attend?

Project managers, network/system designers, application engineers

What prerequisites are required?

Sound knowledge of embedded microcontroller architectures, C- Programming

Seminar contents:

1st Day

- Introduction
 - FlexRay in comparison to existing automotive bus systems
- FlexRay protocol
 - Frame format
 - Cycle multiplexing
 - Synchronisation and start up
- FlexRay physical layer
 - Network topology
 - Transceiver
 - FlexRay communication controller – embedded and external solutions

2nd Day

- Practical exercises using MB91F465X starter kits
- Introduction to development tools
 - FlexRay configuration tools and analysers, MCU debug environment
- Design of a FlexRay network
 - Configuration of network parameters
 - Change of network parameters
 - Monitoring FlexRay bus traffic

[Supplemental Info](#)

Questions? training@fme.fujitsu.com