Rapid prototyping, learning, evaluation, and analysis system for FlexRay Clusters

- Import and create FIBEX cluster definitions
- Serve as a demonstration system for evaluating FlexRay
- Create CAN/LIN/FlexRay Gateways
- Makes understanding C and debugger tools to create FlexRay clusters unnecessary

- Rapidly create and analyze FlexRay cluster designs
- Monitor and view FlexRay frames and events
- Monitor FlexRay states of all cluster nodes via one powerful GUI
- Use for Restbus simulations

PC Running Vehicle Spy and WaveBPS

USB Analog Oscilloscope
* 128 Mega-sample buffer
* 250 MHz Bandwidth

ValueFlexRLC Monitors FlexRay, CAN buses, and LIN Bus with shared timestamp and isolation.

neoECU-60 FlexRay Node A MPC5517G

neoECU-60 FlexRay Node B MPC5517G

DWCAN x2 LIN 8 HIGH SPEED IO

XCP CAN BUS FOR OTHER NODES

OTHER FLEXRAY DEVICES

Please see data sheets of WaveBPS, neoECU-60, Vehicle Spy, and ValueFlexRLC for more detailed specifications.
FlexRay Builder

Network Specifications

2x FlexRay A and B Channels
- 2 Independent Dual FlexRay Channels
- Logic Analysis of Independent Dual FlexRay Channels to 12.5 Nanoseconds and 32 Mbyte buffer
- FlexRay 2.1A certified implementation for FlexRay Controller and FlexRay PHY
- Oscilloscope Trigger
- FlexRay wakeup/startup capable
- Analysis of all FlexRay frames and symbols include dynamic, static, wakeup, mts and cas
- Dynamic reconfiguration of FlexRay driver via CAN Calibration Protocol to allow RESTBUS cluster simulation

3x CAN Channels
- 4 Dedicated ISO11898 Dual Wire CAN Physical Layer (TJA1040)
- CAN 2.0B Active

1x LIN (Local Interconnect), ISO9141, Keyword 2000, or K and L Line
- Full support for LIN 1.X, 2.X and J2602

Analog Oscilloscope
- 1 GS/s sampling (250 Mhz Bandwidth)
- Two channels
- 128 Megasamples capture depth

Please see data sheets of WaveBPS, neoECU-60, Vehicle Spy, and ValueFlexRLC for more detailed specifications.

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