Powerful hardware interfaces for CAN, LIN, J1708, FlexRay and MOST

Software tools used to develop, simulate, test and maintain distributed systems require powerful and flexible hardware interfaces.

Vector offers interfaces for CAN, LIN, J1708, FlexRay, MOST as well as driver software and programming interfaces for use with Vector software tools and in customer-specific solutions.

Highlights

- High data throughput (up to 80 000 messages per second)
- Accurate time stamps
- Highly flexible with large selection of exchangable bus transceivers
- Message preprocessing reduces PC loading
- No data losses, even with 1 Mbit burst loading
- FPGA update possibleTime synchronization with other Vector interfaces is possible via external connection (party line)
- Especially the VN8900 interface is a high-performance real-time platform when used in combination with the CANoe or CANalyzer tool. Its many use cases range from MiniHIL applications to system simulations with Simulink, rest-of-bus simulations as well as gateway implementations and test runs.

Special CAN functions

- Ready for CAN FD
- Detecting and generating Error Frames
- Analyzing the CAN bus without influencing it (silent mode)
- Sending and receiving of data and Remote Frames

Special LIN functions

- Conformity tests per LIN 2.1 specification (CANcardXLe, VN8950, VN1630/1640)
- Detecting and generating of transmission errors, synchronization errors, checksum errors and other protocol violations
- Analyzing the LIN bus without influencing it
- Sending and receiving headers and complete frames
- Measuring of the baud rate in header and response
- Measuring of the frame length
- Detecting of the checksum model
- Disturbing of header and slave response

Special FlexRay functions

- Detailed analysis of the FlexRay communication by an FPGA-based communication controller
- Simulation of extensive networks due to the 2 MB transmission memory (parallel configuration of more than 1000 send messages)
- Cold start of the FlexRay cluster without needing to add a network node
- Analysis of network startup by independent monitoring unit
- Several FlexRay channels (Channel A and B)
- Updating to latest FlexRay specification by FPGA update
- Connector for external time synchronization

Bus transceiver

Choose from a steadily growing number of Vector bus transceivers known as CAN-/LIN/J1708cabs, CAN-/LIN/J1708/FRpiggies and the TWINcabs. Operation of channels can be done in combination of the available transceivers.

For more information please refer to Vector's website:http://www.vector.com/vi_interfaces_en.html

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Features

No features listed.