

AVR308: Software LIN Slave

Features

- Low-cost, No External Components
- Compatible with LIN Protocol Specification Version 1.0
- Size-efficient Code

Introduction

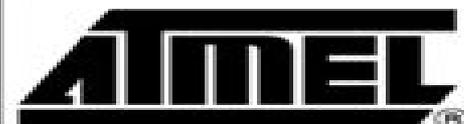
This application note shows how to implement a LIN (Local Interconnect Network) slave task in an 8-bit RISC AVR microcontroller without the need for any external components.

The LIN protocol is a serial communications protocol which efficiently supports control of mechatronic nodes in a distributed network. This makes the protocol ideal for use in automotive applications. A LIN network consist of a single Master and a set of Slave nodes. This application note show how to implement the protocol for the physical layer and the data link layer according to the two lowest levels of the ISO/OSI reference model. This provides the foundation for message transmissions between nodes in the network. The physical layer of the ISO/OSI model only provides a raw bit-stream between two nodes in the network. The data link layer makes the physical layer reliable by adding error detection and control. It also adds the means to activate, maintain, and deactivate the link. The higher levels of the ISO/OSI reference model is beyond the scope of the LIN protocol and thus not explained here. For now, this is up to the user to specify and implement.

The LIN protocol differs from the CAN protocol in the sense that it is below the performance and scope of the CAN. Its strongpoint is that it is provides a simple, low-cost solution for applications not requiring the power of the CAN protocol. The main properties of the LIN bus include:

- Single Master, multiple Slaves.
- Low-cost silicon implementation.
- Self synchronization without quartz or ceramic resonators in the Slave nodes.
- Guarantee of latency time for signal transmission.
- Single-wire implementation.
- Speeds up to 20 Kbits/s.

Figure 1. LIN Network Topology



8-bit AVR[®]
Microcontroller

Application
Note

Rev. 1637B-AVR-05/02



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