AVR308: Software LIN Slave

Features

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

Introduction

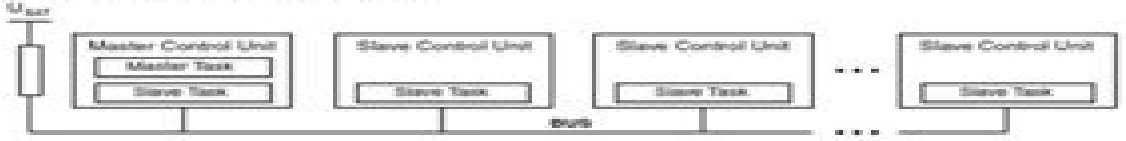
This application note shows how to implement a LIN (Local Interconnect Network) slave task in an 8-bit RISC AVR microcontroller without the need for any external components.

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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Table of Contents 8 Bit Microcontroller Application Note

1. Understanding the eBook 8 Bit Microcontroller Application Note
    - The Rise of Digital Reading 8 Bit Microcontroller Application Note
    - Advantages of eBooks Over Traditional Books
2. Identifying 8 Bit Microcontroller Application Note
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an 8 Bit Microcontroller Application Note
    - User-Friendly Interface
4. Exploring eBook Recommendations from 8 Bit Microcontroller Application Note
    - Personalized Recommendations
    - 8 Bit Microcontroller Application Note User Reviews and Ratings
    - 8 Bit Microcontroller Application Note and Bestseller Lists
5. Accessing 8 Bit Microcontroller Application Note Free and Paid eBooks
    - 8 Bit Microcontroller Application Note Public Domain eBooks
    - 8 Bit Microcontroller Application Note eBook Subscription Services
    - 8 Bit Microcontroller Application Note Budget-Friendly Options

6. Navigating 8 Bit Microcontroller Application Note eBook Formats
    - ePub, PDF, MOBI, and More
    - 8 Bit Microcontroller Application Note Compatibility with Devices
    - 8 Bit Microcontroller Application Note Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of 8 Bit Microcontroller Application Note
    - Highlighting and Note-Taking 8 Bit Microcontroller Application Note
    - Interactive Elements 8 Bit Microcontroller Application Note
8. Staying Engaged with 8 Bit Microcontroller Application Note
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers 8 Bit Microcontroller Application Note
9. Balancing eBooks and Physical Books 8 Bit Microcontroller Application Note
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection 8 Bit Microcontroller Application Note
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine 8 Bit Microcontroller Application Note
    - Setting Reading Goals 8 Bit Microcontroller Application Note
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 8 Bit Microcontroller Application Note
    - Fact-Checking eBook Content of 8 Bit Microcontroller Application Note
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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