AVR308: Software LIN Slave

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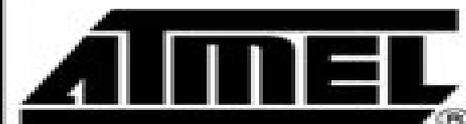- Size-efficient Code

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 Microcontroller Application Note](#)

A Gutmann

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   Arduino for Musicians Brent Edstrom,2016-03-25 Arduino Teensy and related microcontrollers provide a virtually limitless range of creative opportunities for musicians and hobbyists who are interested in exploring do it yourself technologies Given the relative ease of use and low cost of the Arduino platform electronic musicians can now envision new ways of synthesizing sounds and interacting with music making software In Arduino for Musicians author and veteran music instructor Brent Edstrom opens the door to exciting and expressive instruments and control systems that respond to light touch pressure breath and other forms of real time control He provides a comprehensive guide to the underlying technologies enabling electronic musicians and technologists to tap into the vast creative potential of the platform Arduino for Musicians presents relevant concepts including basic circuitry and programming in a building block format that is accessible to musicians and other individuals who enjoy using music technology In addition to comprehensive coverage of music related concepts including direct digital synthesis audio input and output and the Music Instrument Digital Interface MIDI the book concludes with four projects that build on the concepts presented throughout the book The projects which will be of interest to many electronic musicians include a MIDI breath controller with pitch and modulation joystick retro step sequencer custom digital analog synthesizer and an expressive MIDI hand drum Throughout Arduino for Musicians Edstrom emphasizes the convenience and accessibility of the equipment as well as the extensive variety of instruments it can inspire While circuit design and programming are in themselves formidable topics Edstrom introduces their core concepts in a practical and straightforward manner that any reader with a background or interest in electronic music can utilize Musicians and hobbyists at many levels from those interested in creating new electronic music devices to those with experience in synthesis or processing software will welcome Arduino for Musicians   IC Master ,2001   *8051 Microcontrollers* Salvador Pinillos Gimenez,2018-05-22 This textbook describes in detail the fundamental information about the 8051 microcontroller and it carefully teaches readers how to use the microcontroller to make both electronics hardware and software In addition to discussion of the 8051 internals this text includes numerous solved examples end of chapter exercises laboratory and practical projects   Embedded Microcontrollers ,1995   **1995 Product Line Databooks: Embedded microcontrollers** Intel Corporation,1993   Computer Science and Engineering Zainalabedin Navabi,David R. Kaeli,2009-08-10 Computer Science and Engineering is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Computer Science and Engineering provides the essential aspects and fundamentals of Hardware Architectures Software Architectures Algorithms and Data Structures Programming Languages and Computer Security It is aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers   *AVR RISC*

Microcontroller Handbook Claus Kuhnel,1998 The AVR RISC Microcontroller Handbook is a comprehensive guide to designing with Atmel s new controller family which is designed to offer high speed and low power consumption at a lower cost The main text is divided into three sections hardware which covers all internal peripherals software which covers programming and the instruction set and tools which explains using Atmel s Assembler and Simulator available on the Web as well as IAR s C compiler Practical guide for advanced hobbyists or design professionals Development tools and code available on the Web   Application Notes for 80C51-based 8-bit Microcontrollers Philips,1993   *Application Notes for 80C51-based 8-bit Microcontrollers* ,1993   **Digital Logic** M. Rafiquzzaman,Steven A. McNinch,2019-08-21 Digital Logic with an Introduction to Verilog and FPGA Based Design provides basic knowledge of field programmable gate array FPGA design and implementation using Verilog a hardware description language HDL commonly used in the design and verification of digital circuits Emphasizing fundamental principles this student friendly textbook is an ideal resource for introductory digital logic courses Chapters offer clear explanations of key concepts and step by step procedures that illustrate the real world application of FPGA based design Designed for beginning students familiar with DC circuits and the C programming language the text begins by describing of basic terminologies and essential concepts of digital integrated circuits using transistors Subsequent chapters cover device level and logic level design in detail including combinational and sequential circuits used in the design of microcontrollers and microprocessors Topics include Boolean algebra and functions analysis and design of sequential circuits using logic gates FPGA based implementation using CAD software tools and combinational logic design using various HDLs with focus on Verilog   **The Motorola MC68332 Microcontroller** Thomas L. Harman,1991 M CREATED   **Peripheral Components** ,1993   **EDN, Electrical Design News** ,2007   Linear Applications Handbook National Semiconductor Corporation,1994   **Microcontroller Technology, the 68HC11** Peter Spasov,1999 Appropriate for courses in Introduction to Microprocessors Microcontrollers Interfacing Control Automation and Control Systems or Robotics Material is thoroughly updated and expanded to include the latest concepts and terminology Uses assembly language source code for the free ASll assembler the assembler of choice Five part organizational format covers I Introducing Microcontroller Technology II Software III Hardware IV Interfacing V The Microcontroller World   **1995 Product Line Databooks: Intel486 microprocessors and related products** Intel Corporation,1993   *1995 Product Line Databooks: Embedded applications (2 v.)* Intel Corporation,1993   Software and Hardware Engineering Fredrick M. Cady,2008 Software and Hardware Engineering Assembly and C Programming for the Freescale HCS12 Microcontroller Second Edition provides a general purpose view of software and hardware engineering in microcontroller systems and a comprehensive technical reference for the Freescale HCS12 microcontroller It is ideal for a first undergraduate course in microcontrollers microprocessors or microcomputers   **Embedded Controller Forth For The 8051 Family** William H. Payne,1990-09-28 The purpose of this book is to present the technology requied to develop

hardware and software for embedded controller systems at a fraction of the cost of traditional methods Included in the book are hardware schematics of 8051 family development systems single board and bussed 8051 microcontroller Source code for both the 8086 and 805 family FORTH operating systems is published in the book Binary images of the opeating systems can be generated from teh source code using the metacompiler also contained in the book The book can be seen as a toolbox includingg all the necessary hardware and software information to be used in constructing 8051 based controller systems

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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

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