

## AVR308: Software LIN Slave

### Features

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

### Introduction

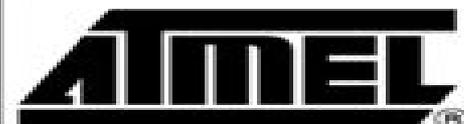
This application note shows how to implement a LIN (Local Interconnect Network) slave task in an 8-bit RISC AVR microcontroller without the need for any external components.

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<sup>®</sup>  
Microcontroller

Application  
Note

Rev. 1637B-AVR-05/02



# 8 Bit Microcontroller Application Note

**M Planty**



## 8 Bit Microcontroller Application Note:

**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

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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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**6 cara penerapan indikator kinerja karyawan di perusahaan** - Mar 30 2022

web jan 18 2023 misalnya indikator kinerja karyawan yang sukses adalah karyawan yang menyelesaikan pekerjaan dengan standar tinggi dan rekan kerja merasa senang berada di dekatnya nah arti employee performance indicator atau indikator

kinerja karyawan adalah alat atau metode pengukuran kinerja yang memungkinkan organisasi atau

**12 indikator penilaian kinerja karyawan dan cara menerapkannya** - May 12 2023

web jul 6 2023 indikator kinerja karyawan merujuk pada metode atau ukuran yang digunakan untuk menilai atau mengukur performa atau prestasi kerja seorang karyawan umumnya indikator ini mencakup berbagai aspek seperti produktivitas kualitas kerja kehadiran kedisiplinan kemampuan kerja dan kemampuan untuk bekerja dalam tim

**bab ii tinjauan pustaka 2 1 kajian teori a definisi kinerja** - Jun 01 2022

web e indikator kinerja menurut syahputra s h 2018 terdapat indikator kinerja karyawan yaitu 1 kuantitas kuantitas merupakan hasil produksi organisasi kuantitas dapat diukur dengan cara menghitung kesesuaian target organisasi dengan jumlah produksi yang dihasilkan oleh sdm 2 kualitas

5 indikator kinerja karyawan yang penting untuk evaluasi mekari - Mar 10 2023

web 1 kualitas kerja 3 2 2 kuantitas kerja 3 3 3 efisiensi waktu 3 4 4 efektifitas 3 5 5 kemandirian apa itu indikator kinerja karyawan indikator kinerja karyawan merupakan tolak ukur pedoman atau instrumen untuk mengukur kinerja karyawan di perusahaan tempat mereka bekerja

*10 indikator kinerja karyawan yang baik dan cara mengukurnya* - Apr 11 2023

web apa itu indikator kinerja karyawan indikator kinerja karyawan adalah kumpulan parameter yang digunakan untuk mengukur hasil pencapaian pegawai indikator kinerja karyawan menurut para ahli adalah alat untuk mengukur sejauh mana pencapaian kinerja pegawai robbins 2016 260

**indikator kinerja karyawan definisi tujuan dan parameternya** - Dec 27 2021

web aug 1 2022 menurut hartatik dalam buku manajemen sumber daya manusia kompensasi dalam kinerja karyawan tujuan penilaian melalui indikator tertentu yaitu memperbaiki pelaksanaan pekerjaan ke setiap karyawan dengan begitu mereka dapat memaksimalkan potensi dalam melaksanakan misi organisasi atau perusahaan selain itu penggunaan

**indikator kinerja karyawan pengertian tujuan dan fungsinya** - Feb 09 2023

web apr 19 2022 secara definisi indikator kinerja adalah sebuah ukuran atau kriteria ukuran yang digunakan dalam penilaian dan pengawasan kinerja karyawan di organisasi atau perusahaan indikator kinerja tersebut dibuat dan diaplikasikan dalam usaha mencapai tujuan organisasi atau perusahaan

indikator kinerja karyawan pengertian contoh dan manfaatnya - Aug 15 2023

web oct 8 2022 ada lima indikator yang mengukur atau menentukan kinerja karyawan yaitu kualitas kerja kuantitas ketepatan waktu efektifitas dan kemandirian contoh indikator kinerja pada karyawan berikut adalah contoh atau penjelasan terkait lima indikator kinerja pada karyawan bpakhm unp ac id 1 kualitas

*10 indikator kinerja karyawan dan cara menyusunnya kitalulus* - Sep 04 2022

web baca juga kpi adalah pengertian fungsi indikator dan cara penerapannya pengertian indikator kinerja pada dasarnya pengertian indikator kinerja adalah sebuah ukuran atau matriks kinerja karyawan dalam perusahaan untuk bisa mencapai tujuan yang sudah ditentukan

**apa saja indikator kinerja karyawan menurut para ahli mekari** - Jun 13 2023

web jun 22 2022 indikator kinerja karyawan menurut para ahli datang dari dari robbins 2016 260 indikator kinerja adalah alat untuk mengukur sejauh mana pencapaian kinerja karyawan berikut beberapa indikator penilaian kinerja karyawan menurut para ahli adalah 1 kualitas kerja 2 kuantitas 3 ketepatan waktu 4 efektifitas 5

**indikator kinerja karyawan pengertian indikatornya dan cara** - Jul 14 2023

web dec 2 2022 menurut pendapat para ahli indikator kinerja karyawan adalah suatu ukuran kinerja pegawai suatu organisasi atau perusahaan tertentu untuk mencapai tujuan organisasi perusahaan oleh karena itu perusahaan harus merumuskan indikator indikator ini agar dapat mencapai tujuan perusahaan secara memadai

**kpi hrd definisi indikator contoh dan cara mengukur kpi** - Apr 30 2022

web apr 5 2023 kpi hrd merupakan metrik wajib yang perlu diketahui untuk tim hr perusahaan mulai dari rekrutmen karyawan baru hingga pengelolaan kinerja produktivitas karyawan terdapat beberapa indikator kpi hrd untuk mengukur performansi kinerja karyawan lalu apa saja indikator dan cara mengukur kpi hrd

kinerja karyawan definisi jenis faktor indikator kinerja pegawai - Nov 06 2022

web aug 6 2023 seperti apa definisinya pengertian kinerja pegawai karyawan kinerja karyawan merupakan gambaran tentang kemampuan keterampilan dan hasil kerja yang diperlihatkan oleh seorang karyawan dalam menjalankan tugas dan tanggung jawabnya di

**kinerja karyawan pengertian indikator dan faktor yang** - Aug 03 2022

web apr 30 2023 apa saja indikator dan faktor yang mempengaruhi kinerja seorang karyawan mari kita simak bersama ulasan lengkapnya di bawah ini pengertian kinerja karyawan kinerja karyawan adalah ukuran sejauh mana seorang karyawan berhasil mencapai tujuan tujuan dan standar yang telah ditetapkan oleh perusahaan atau

7 contoh indikator penilaian kinerja karyawan hrd perlu tahu - Jan 28 2022

web jul 5 2023 contoh indikator penilaian kinerja karyawan ini memiliki banyak manfaat selain sebagai timbal balik kepada karyawan penilaian karyawan juga bisa membantu perusahaan dalam mengambil keputusan manajemen

**indikator penilaian kinerja karyawan pengertian contoh dan** - Oct 05 2022

web jun 12 2023 absensi kehadiran setelah rasa inisiatif hal penting selanjutnya yang perlu dijadikan indikator penilaian kinerja karyawan yaitu mengenai absensi karyawan dengan melakukan penilaian terhadap absensi kehadiran anda dapat mengetahui siapa saja karyawan yang sering cuti atau izin tidak masuk kerja

**mengenal apa itu indikator kinerja karyawan dan manfaatnya** - Feb 26 2022

web jul 18 2023 pengertian indikator kinerja karyawan adalah sebuah tools yang digunakan untuk menilai mengukur tingkat pencapaian karyawan dalam melaksanakan tugas dan tanggung jawabnya di tempat kerja indikator kinerja karyawan bertujuan untuk mengukur produktivitas efisiensi efektivitas dan kontribusi karyawan terhadap tujuan organisasi

**4 jenis dan 17 indikator penilaian kinerja karyawan** - Jul 02 2022

web oct 18 2022 indikator penilaian kinerja karyawan adalah kunci untuk melacak seberapa baik karyawan melaksanakan pekerjaan mereka tim hr harus memiliki metode untuk mengukur produktivitas dan efisiensi karyawan melacak kinerja karyawan bermanfaat bagi organisasi dan karyawan secara keseluruhan

**10 indikator penilaian kinerja pegawai glints for employers** - Dec 07 2022

web dec 10 2020 10 indikator penilaian kinerja pegawai anggita dwinda december 10 2020 unsplash pada dasarnya evaluasi kinerja karyawan yang dilakukan perusahaan bukan hanya upaya untuk memelihara tingkat produktivitas karyawan tapi juga berguna untuk pemberian bonus atau reward atas capaian karyawan