

Features

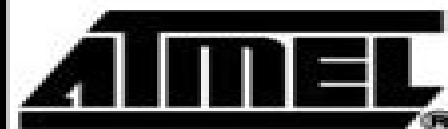
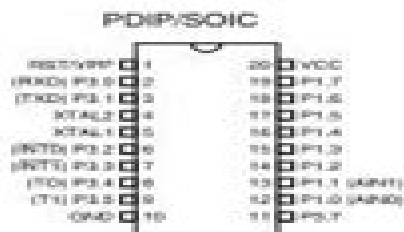
- Compatible with MCS-51™ Products
- 2K Bytes of Reprogrammable Flash Memory
 - Endurance: 1,000 Write/Erase Cycles
- 2.7V to 6V Operating Range
- Fully Static Operation: 0 Hz to 24 MHz
- Two-level Program Memory Lock
- 128 x 8-bit Internal RAM
- 15 Programmable I/O Lines
- Two 16-bit Timer/Counters
- Six Interrupt Sources
- Programmable Serial UART Channel
- Direct LED Drive Outputs
- On-chip Analog Comparator
- Low-power Idle and Power-down Modes

Description

The AT89C2051 is a low-voltage, high-performance CMOS 8-bit microcomputer with 2K bytes of Flash programmable and erasable read only memory (PEROM). The device is manufactured using Atmel's high-density nonvolatile memory technology and is compatible with the industry-standard MCS-51 instruction set. By combining a versatile 8-bit CPU with Flash on a monolithic chip, the Atmel AT89C2051 is a powerful microcomputer which provides a highly-flexible and cost-effective solution to many embedded control applications.

The AT89C2051 provides the following standard features: 2K bytes of Flash, 128 bytes of RAM, 15 I/O lines, two 16-bit timer/counters, a five vector two-level interrupt architecture, a full duplex serial port, a precision analog comparator, on-chip oscillator and clock circuitry. In addition, the AT89C2051 is designed with static logic for operation down to zero frequency and supports two software selectable power saving modes. The Idle Mode stops the CPU while allowing the RAM, timer/counters, serial port and interrupt system to continue functioning. The power-down mode saves the RAM contents but freezes the oscillator disabling all other chip functions until the next hardware reset.

Pin Configuration



8-bit Microcontroller with 2K Bytes Flash

AT89C2051



At89c2051 8 Bit Mcu With 2k Bytes Flash

Kai Qian,David Den Haring,Li Cao



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Intelligent Science and Intelligent Data Engineering Jian Yang, Fang Fang, Changyin Sun, 2013-02-11 This book constitutes the proceedings of the third Sino foreign interchange Workshop on Intelligence Science and Intelligent Data Engineering IScIDE 2012 held in Nanjing China in October 2012 The 105 papers presented were carefully peer reviewed and selected from 429 submissions Topics covered include pattern recognition computer vision and image processing machine learning and computational intelligence knowledge discovery data mining and web mining graphics and computer visualization and multimedia processing and applications

Microprocessors and Microcontrollers Mr. Rohit Manglik, 2024-07-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

PIC Microcontrollers: Know It All Lucio Di Jasio, Tim Wilmshurst, Dogan Ibrahim, John Morton, Martin P. Bates, Jack Smith, David W Smith, Chuck Hellebuyck, 2007-07-30 The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one stop reference for engineers involved in markets from communications to embedded systems and everywhere in between PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject This material ranges from the basics to more advanced topics There is also a very strong project basis to this learning The average embedded engineer working with this microcontroller will be able to have any question answered by this compilation He she will also be able to work through real life problems via the projects contained in the book The Newnes Know It All Series presentation of theory hard fact and project based direction will be a continual aid in helping the engineer to innovate in the workplace

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Programming LoopsChapter 26 More LoopsChapter 27 NUMB3RSChapter 28 InterruptsChapter 29 Taking a Look under the Hood Over 900 pages of practical hands on content in one book Huge market as of November 2006 Microchip Technology Inc a leading provider of microcontroller and analog semiconductors produced its 5 BILLIONth PIC microcontroller Several points of view giving the reader a complete 360 of this microcontroller

Designing Embedded Systems with PIC Microcontrollers Tim Wilmshurst, 2006-10-24 Embedded Systems with PIC Microcontrollers Principles and Applications is a hands on introduction to the principles and practice of embedded system design using the PIC microcontroller Packed with helpful examples and illustrations the book provides an in depth treatment of microcontroller design as well as programming in both assembly language and C along with advanced topics such as techniques of connectivity and networking and real time operating systems In this one book students get all they need to know to be highly proficient at embedded systems design This text combines embedded systems principles with applications using the 16F84A 16F873A and the 18F242 PIC microcontrollers Students learn how to apply the principles using a multitude of sample designs and design ideas including a robot in the form of an autonomous guide vehicle Coverage between software and hardware is fully balanced with full presentation given to microcontroller design and software programming using both assembler and C The book is accompanied by a companion website containing copies of all programs and software tools used in the text and a student version of the C compiler This textbook will be ideal for introductory courses and lab based courses on embedded systems microprocessors using the PIC microcontroller as well as more advanced courses which use the 18F series and teach C programming in an embedded environment Engineers in industry and informed hobbyists will also find this book a valuable resource when designing and implementing both simple and sophisticated embedded systems using the PIC microcontroller Gain the knowledge and skills required for developing today s embedded systems through use of the PIC microcontroller Explore in detail the 16F84A 16F873A and 18F242 microcontrollers as examples of the wider PIC family Learn how to program in Assembler and C Work through sample designs and design ideas including a robot in the form of an autonomous guided vehicle Accompanied by a CD ROM containing copies of all programs and software tools used in the text and a student version of the C compiler

Embedded Software Development with C Kai Qian, David Den Haring, Li Cao, 2009-07-28 Embedded Software Development With C offers both an effectual reference for professionals and researchers and a valuable learning tool for students by laying the groundwork for a solid foundation in the hardware and software aspects of embedded systems development Key features include a resource for the fundamentals of embedded systems design and development with an emphasis on software an exploration of the 8051 microcontroller as it pertains to embedded systems comprehensive tutorial materials for instructors to provide students with labs of varying lengths and levels of difficulty and supporting website including all sample codes software tools and links to additional online references

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