

Features

- High-performance, Low-power AVR[®] 8-bit Microcontroller
- Advanced RISC Architecture
 - 130 Powerful Instructions – Most Single-Cycle Execution
 - 32 x 8 General-Purpose Working Registers – Peripheral Control Registers
 - Fully Static Operation
 - Up to 16 MHz Throughput at 1.8 VDD
 - On-chip 8-cycle Watchdog
- High Endurance Non-volatile Memory segments
 - 128K Bytes of In-System Self-programmable Flash program memory
 - 8K Bytes EEPROM
 - 8K Bytes Internal SRAM
 - Write/Erase cycles: 10,000 Flash/10,000 EEPROM
 - Data retention: 20 years at 85°C/100 years at 25°C¹
 - Optional Boot Code Section with Independent Lock Bits
 - In-System Programming by On-chip Boot Program
 - True Read-While-Write Operation
 - Up to 64K Bytes Optional External Memory Space
 - Programming Lock for Software Security
 - SPI Interface for In-System Programming
- JTAG/JTAG and 1155.1 Compliant Interface
 - Boundary-Scan Capabilities According to the JTAG Standard
 - Extensive On-chip Debug Support
 - Programming of Flash, EEPROM, Fuses and Lock Bits through the JTAG Interface
 - 4 JTAG Pins
 - 4 Timers with Separate Prescalers and Compare Modes
 - 1 External Interrupt with Programmable Interrupt-on-Change
 - 1 External Interrupt with Programmable Prescaler, Compare Mode and Interrupt-on-Change
 - Real-time Counter with Prescaler and Compare Mode
 - Two 8-bit PWM Channels
 - 6 Parallel Channels with Programmable Logic
 - Output Compare Modules
 - External, 10-bit ADC
 - 8 Single-ended Channels
 - 2 Differential Channels
 - 2 Differential Channels with Programmable Gain of 1x, 10x, or 20x
 - Byte-oriented Two-wire Serial Interface
 - Dual Programmable Serial USARTs
 - Universal Asynchronous Serial Interface
 - Programmable Watchdog Timer with On-chip Oscillator
 - On-chip Analog Comparator
- Special Microcontroller Features
 - Power-on Reset and Programmable Brown-out Detection
 - Internal Calibrated RC Oscillator
 - External and Internal Interrupt Sources
 - Six Sleep Modes: Idle, ADC Noise Reduction, Power-save, Power-down, Standby, and Extended Standby
 - Software Selectable Clock Frequency
 - Atmega160 Compatibility Mode Selected by a Fuse
 - Global Pull-up Enable
- I/O and Packages
 - 53 Programmable I/O Lines
 - 84-pin TQFP and 84-pin QFN
- Operating Voltages
 - 3.0 – 5.5V
- Speed Grades
 - 0 – 16 MHz



8-bit AVR[®]
Microcontroller
with 128K Bytes
In-System
Programmable
Flash

ATmega128A

Summary

www.atmel.com/avr



Atmel Avr Atmega128a Datasheet Atmel Corporation

Warwick A. Smith



Atmel Avr Atmega128a Datasheet Atmel Corporation:

Atmel AVR Microcontroller Primer Steven F. Barrett, Daniel J. Pack, 2012 This textbook provides practicing scientists and engineers a primer on the Atmel AVR microcontroller In this second edition we highlight the popular ATmega164 microcontroller and other pin for pin controllers in the family with a complement of flash memory up to 128 kbytes The second edition also adds a chapter on embedded system design fundamentals and provides extended examples on two different autonomous robots Our approach is to provide the fundamental skills to quickly get up and operating with this internationally popular microcontroller We cover the main subsystems aboard the ATmega164 providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to exercise the subsystem In all examples we use the C programming language We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples

Table of Contents Atmel AVR Architecture Overview Serial Communication Subsystem Analog to Digital Conversion Interrupt Subsystem Timing Subsystem Atmel AVR Operating Parameters and Interfacing Embedded Systems Design **Embedded Systems Design with the Atmel AVR Microcontroller** Steven F. Barrett, 2010 This textbook provides practicing scientists and engineers an advanced treatment of the Atmel AVR microcontroller This book is intended as a follow on to a previously published book titled Atmel AVR Microcontroller Primer Programming and Interfacing Some of the content from this earlier text is retained for completeness This book will emphasize advanced programming and interfacing skills We focus on system level design consisting of several interacting microcontroller subsystems The first chapter discusses the system design process Our approach is to provide the skills to quickly get up to speed to operate the internationally popular Atmel AVR microcontroller line by developing systems level design skills We use the Atmel ATmega164 as a representative sample of the AVR line The knowledge you gain on this microcontroller can be easily translated to every other microcontroller in the AVR line In succeeding chapters we cover the main subsystems aboard the microcontroller providing a short theory section followed by a description of the related microcontroller subsystem with accompanying software for the subsystem We then provide advanced examples exercising some of the features discussed In all examples we use the C programming language The code provided can be readily adapted to the wide variety of compilers available for the Atmel AVR microcontroller line We also include a chapter describing how to interface the microcontroller to a wide variety of input and output devices The book concludes with several detailed system level design examples employing the Atmel AVR microcontroller **Microchip AVR® Microcontroller Primer** Steven F. Barrett, Daniel J. Pack, 2019-09-19 This textbook provides practicing scientists and engineers a primer on the Microchip AVR microcontroller The revised title of this book reflects the 2016 Microchip Technology acquisition of Atmel Corporation In this third edition we highlight the popular ATmega164 microcontroller and other pin for pin controllers in the family with a complement of flash memory up to 128 KB The third edition also provides an

update on Atmel Studio programming with a USB pod the gcc compiler the ImageCraft JumpStart C for AVR compiler the Two Wire Interface TWI and multiple examples at both the subsystem and system level Our approach is to provide readers with the fundamental skills to quickly set up and operate with this internationally popular microcontroller We cover the main subsystems aboard the ATmega164 providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to operate the subsystem In all examples we use the C programming language We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples including a special effects light emitting diode cube autonomous robots a multi function weather station and a motor speed control system

Introduction to Atmel AVR Microcontroller Development Chris Leaver,2010 Programming and Customizing the AVR Microcontroller ,2001 **The AVR**

Microcontroller and Embedded Systems Muhammad Ali Mazidi,Sarmad Naimi,Sepehr Naimi,2017 **Embedded**

System Design with the Atmel AVR Microcontroller Steven Barrett,2009-12-08 This textbook provides practicing scientists and engineers an advanced treatment of the Atmel AVR microcontroller This book is intended as a follow on to a previously published book titled Atmel AVR Microcontroller Primer Programming and Interfacing Some of the content from this earlier text is retained for completeness This book will emphasize advanced programming and interfacing skills We focus on system level design consisting of several interacting microcontroller subsystems The first chapter discusses the system design process Our approach is to provide the skills to quickly get up to speed to operate the internationally popular Atmel AVR microcontroller line by developing systems level design skills We use the Atmel ATmega164 as a representative sample of the AVR line The knowledge you gain on this microcontroller can be easily translated to every other microcontroller in the AVR line In succeeding chapters we cover the main subsystems aboard the microcontroller providing a short theory section followed by a description of the related microcontroller subsystem with accompanying software for the subsystem We then provide advanced examples exercising some of the features discussed In all examples we use the C programming language The code provided can be readily adapted to the wide variety of compilers available for the Atmel AVR microcontroller line We also include a chapter describing how to interface the microcontroller to a wide variety of input and output devices The book concludes with several detailed system level design examples employing the Atmel AVR microcontroller Table of Contents Embedded Systems Design Atmel AVR Architecture Overview Serial Communication Subsystem Analog to Digital Conversion ADC Interrupt Subsystem Timing Subsystem Atmel AVR Operating Parameters and Interfacing System Level Design **AVR microcontrollers data book** Atmel Corporation,1997 AVR RISC Microcontroller Handbook Claus Kuhnel,1998-10-02 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 **Make, AVR Programming** Elliot Williams, 2014 Features intermediate and advanced projects that demonstrate the capabilities of Atmel AVR series microcontrollers **The AVR Microcontroller and Embedded Systems** Muhammad Ali Mazidi, 2011

Embedded System Design with the Atmel AVR Microcontroller II Steven Barrett, 2022-05-31 This textbook provides practicing scientists and engineers an advanced treatment of the Atmel AVR microcontroller This book is intended as a follow on to a previously published book titled Atmel AVR Microcontroller Primer Programming and Interfacing Some of the content from this earlier text is retained for completeness This book will emphasize advanced programming and interfacing skills We focus on system level design consisting of several interacting microcontroller subsystems The first chapter discusses the system design process Our approach is to provide the skills to quickly get up to speed to operate the internationally popular Atmel AVR microcontroller line by developing systems level design skills We use the Atmel ATmega164 as a representative sample of the AVR line The knowledge you gain on this microcontroller can be easily translated to every other microcontroller in the AVR line In succeeding chapters we cover the main subsystems aboard the microcontroller providing a short theory section followed by a description of the related microcontroller subsystem with accompanying software for the subsystem We then provide advanced examples exercising some of the features discussed In all examples we use the C programming language The code provided can be readily adapted to the wide variety of compilers available for the Atmel AVR microcontroller line We also include a chapter describing how to interface the microcontroller to a wide variety of input and output devices The book concludes with several detailed system level design examples employing the Atmel AVR microcontroller Table of Contents Embedded Systems Design Atmel AVR Architecture Overview Serial Communication Subsystem Analog to Digital Conversion ADC Interrupt Subsystem Timing Subsystem Atmel AVR Operating Parameters and Interfacing System Level Design **Programming And Customizing The Avr Micr** Gadre, 2003-08 This reader friendly guide shows you how to take charge of the newest most versatile microcontrollers around Atmel's AVR RISC chip family Inside Electronics World writer and astronomy instrumentation developer Dhananjay V Gadre walks you from first meeting these exciting new computers on a chip all the way through design and ready to launch products *AVR Atmel Corporation 8-bit RISC Microcontrollers Data Book* Atmel Corporation. San José, Calif., 1999 **Explore ATtiny Microcontrollers Using C and Assembly Language** Warwick A. Smith, 2021 [Some Assembly Required](#) Timothy S Margush, 2011-08-05 A family of internationally popular microcontrollers the Atmel AVR microcontroller series is a low cost hardware development platform suitable for an educational environment Until now no text focused on the assembly language programming of these microcontrollers Through detailed coverage of assembly language programming principles and techniques [Some Assembly Required](#) Assembly Language Programming with the AVR Microcontroller teaches the basic system capabilities of 8 bit AVR

microcontrollers The text illustrates fundamental computer architecture and programming structures using AVR assembly language It employs the core AVR 8 bit RISC microcontroller architecture and a limited collection of external devices such as push buttons LEDs and serial communications to describe control structures memory use and allocation stacks and I O Each chapter contains numerous examples and exercises including programming problems By studying assembly languages computer scientists gain an understanding of the functionality of basic processors and how their capabilities support high level languages and applications Exploring this connection between hardware and software this book provides a foundation for understanding compilers linkers loaders and operating systems in addition to the processors themselves

Programming and Customizing the AVR Microcontroller Dhananjay Gadre,2000-10-09 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product How to take charge of the newest most versatile microcontrollers around Atmel s AVR RISC chip family with CD ROM This reader friendly guide shows you how to take charge of the newest most versatile microcontrollers around Atmel s AVR RISC chip family Inside Electronics World writer and astronomy instrumentation developer Dhananjay V Gadre walks you from first meeting these exciting new computers on a chip all the way through design and ready to launch products *The Atmel AVR Microcontroller: MEGA and XMEGA in Assembly and C* Han-Way Huang,2013-01-14 Offering comprehensive cutting edge coverage THE ATMEL AVR MICROCONTROLLER MEGA AND XMEGA IN ASSEMBLY AND C delivers a systematic introduction to the popular Atmel 8 bit AVR microcontroller with an emphasis on the MEGA and XMEGA subfamilies It begins with a concise and complete introduction to the assembly language programming before progressing to a review of C language syntax that helps with programming the AVR microcontroller Emphasis is placed on a wide variety of peripheral functions useful in embedded system design Vivid examples demonstrate the applications of each peripheral function which are programmed using both the assembly and C languages Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Make: AVR Programming Elliot Williams,2013-08-31 Features intermediate and advanced projects that demonstrate the capabilities of Atmel AVR series microcontrollers **AVR Microcontroller and Embedded Systems: Using Assembly and C** Muhammad Ali Mazidi,Sarmad Naimi,Sepehr Naimi,2015-01-28 For courses in Embedded System Design Microcontroller s Software and Hardware Microprocessor Interfacing Microprocessor Assembly Language Programming Peripheral Interfacing Senior Project Design Embedded System programming with C The AVR Microcontroller and Embedded Systems Using Assembly and C features a step by step approach in covering both Assembly and C language programming of the AVR family of Microcontrollers It offers a systematic approach in programming and interfacing of the AVR with LCD keyboard ADC DAC Sensors Serial Ports Timers DC and Stepper Motors Opto isolators and RTC Both Assembly and C languages are used in all the peripherals programming In the first 6 chapters Assembly language is used to

cover the AVR architecture and starting with chapter 7 both Assembly and C languages are used to show the peripherals programming and interfacing The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

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