



LaunchPad with MSP430G2553

Revision 1.4

Flash 16 KB
Serial Hardware

Hardware
Pin number

PC
Serial UART
SPI

analogRead()
digitalRead() and digitalWrite()
digitalRead(), digitalWrite()
and analogWrite()

+3.3V				1
RED_LED		A0	P1_0	2
	RXD	A1	P1_1	3
	TXD	A2	P1_2	4
PUSH2		A3	P1_3	5
		A4	P1_4	6
	SCK (M0)	A5	P1_5	7
	CS (M0)		P2_0	8
			P2_1	9
			P2_2	10



20					GROUND
19	P2_6				XIN
18	P2_7				XOUT
17					TEST
16					RESET
15	P1_7	A7	SDA	MOSI (M0)	
14	P1_6	A6	SCL	MISO (M0)	GREEN_LED
13	P2_5				
12	P2_4				
11	P2_3				

Msp430 Launchpad Datasheet

**Cem Unsalan,H. Deniz Gurhan,M. Erkin
Yucel**

Msp430 Launchpad Datasheet:

MSP430 Microcontroller Lab Manual James Kretzschmar, Jeffrey Anderson, Steven F. Barrett, 2023-05-23 This book is a practical reference for using Texas Instruments MSP430 microcontrollers It provides a series of hands on laboratory exercises The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument This book can be used as a reference for planning future projects using the MSP430 microcontroller The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller CPU clock Basic Input Output Timer Analog to Digital Converter They also provide examples of how to develop Pulse Width Modulation signals and how to use Interrupts

Programmable Microcontrollers: Applications on the MSPM0 LaunchPad Cem Unsalan, H. Deniz Gurhan, M. Erkin Yucel, 2025-07-18 A detailed introduction to embedded designing and programming using the most up to date and market dominant embedded application system Microcontrollers are everywhere These small self contained computers are embedded in and control everything from traffic lights car alarms and TV remote controls to medical devices toys and microwave ovens Programmable Microcontrollers provides the fundamentals on working with Texas Instruments MSPM0 LaunchPad The MSPM0 line of ultra low power mixed signal microcontrollers is used in a large and growing number of applications where efficient data processing and enhanced low power operation are critical Explaining the MSPM0 working principles through practical applications illustrated examples and DIY projects the expert guide provides the fundamentals required to program microcontrollers Programmable Microcontrollers offers critical information on the dominating C and assembly language programming for this new microcontroller family of products It introduces Code Composer Studio CCS Theia and its novel features along with SYSCONFIG application usage The book also explores fundamental assembly usage integration and practical use of real time operating systems RTOS and implementation of bootloader mechanisms Moreover it covers the new timer clock tree and power management features offering practical guidance for developers

Making Embedded Systems Elecia White, 2024-03 Interested in developing embedded systems Since they don't tolerate inefficiency these systems require a disciplined approach to programming This easy to read guide helps you cultivate good development practices based on classic software design patterns and new patterns unique to embedded programming You'll learn how to build system architecture for processors not for operating systems and you'll discover techniques for dealing with hardware difficulties changing designs and manufacturing requirements Written by an expert who has created systems ranging from DNA scanners to children's toys this book is ideal for intermediate and experienced programmers no matter what platform you use This expanded second edition includes new chapters on IoT and networked sensors motors and movement debugging data handling strategies and more Optimize your system to reduce cost and increase performance Develop an architecture that makes your software robust in resource constrained environments Explore sensors displays motors and other I/O devices Reduce RAM and power consumption code space and processor cycles

Learn how to interpret schematics datasheets and power requirements Discover how to implement complex mathematics and machine learning on small processors Design effective embedded systems for IoT and networked sensors Programmable Microcontrollers with Applications Cem Unsalan,H. Deniz Gurhan,2013-09-17 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 MASTER THE MSP430 MICROCONTROLLER AND DEVELOPMENT PLATFORM Expand your electronics design skills to include the MSP430 family of ultra low power microprocessors with help from this practical guide Programmable Microcontrollers with Applications MSP430 LaunchPad with CCS and Grace thoroughly explains each concept and provides illustrated examples and projects Find out how to configure the MSP430 efficiently program custom functions process analog and digital signals and interface with external components Sample code and reference information are available on the companion website COVERAGE INCLUDES Digital circuit and microcontroller fundamentals MSP430 architecture and CCS development environment LaunchPad platform and Grace configuration tool C and Assembly language programming and debugging Interrupts digital I O and D A and A D converters Data storage and coding practices for flash memory Oscillators clocks low power modes and timers Digital and analog communication ports and protocols Schematics and assembly instructions for 12 projects Embedded Systems Design using the MSP430FR2355 LaunchPad™ Brock J. LaMeres,2023-01-06 This textbook for courses in Embedded Systems introduces students to necessary concepts through a hands on approach LEARN BY EXAMPLE This book is designed to teach the material the way it is learned through example Every concept is supported by numerous programming examples that provide the reader with a step by step explanation for how and why the computer is doing what it is doing LEARN BY DOING This book targets the Texas Instruments MSP430 microcontroller This platform is a widely popular low cost embedded system that is used to illustrate each concept in the book The book is designed for a reader that is at their computer with an MSP430FR2355 LaunchPad™ Development Kit plugged in so that each example can be coded and run as they learn LEARN BOTH ASSEMBLY AND C The book teaches the basic operation of an embedded computer using assembly language so that the computer operation can be explored at a low level Once more complicated systems are introduced i e timers analog to digital converters and serial interfaces the book moves into the C programming language Moving to C allows the learner to abstract the operation of the lower level hardware and focus on understanding how to make things work BASED ON SOUND PEDAGOGY This book is designed with learning outcomes and assessment at its core Each section addresses a specific learning outcome that the student should be able to do after its completion The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome *Getting Started with the MSP430 Launchpad* Adrian Fernandez,Dung Dang,2013-04-19 This book explores the world of microcontroller development through friendly lessons and progressively challenging projects which will have you blink LEDs make music with buzzers interact with different sensors like accelerometers and temperature

sensors This book is focused on the MSP EXP430G2 LaunchPad Evaluation Kit which is a complete microcontroller development platform that includes everything you need to start creating microcontroller based projects Many of the 25 projects will also leverage external components such as the highly integrated Educational BoosterPack which is a modular extension to the LaunchPad and includes many components such as an RGB LED character LCD potentiometer This book provides helpful guides that break down hardware circuits through visual diagrams and includes fully commented code examples Concepts are broken down and explained in an easy to follow language and analogies to help you understand the principles behind each project system The projects will encourage you to use and even combine the fundamental concepts to develop your ideas in creating new microcontroller solutions Coverage includes Digital Input Output buttons LEDs turning anything into a button Analog Input Output sensors temperature accelerometer potentiometer etc Programming fundamentals conditional branches loops flow logic number systems Pulse Width Modulation PWM square wave buzzer analog signal simulation Serial Communication UART SPI I2C Code development using Energia a free open source code editor and compiler Debugging through serial communication with a computer Interfacing with external components such as LEDs buzzers potentiometers sensors more With the help of this book you will be challenged to think about developing your own unique microcontroller based application and you will be equipped to start solving various problems adding intelligence to existing products or even developing your own innovative creations with a LaunchPad development kit Includes over 25 projects which focuses on a learn by doing approach Contains easy to follow diagrams and code examples Covers Programming fundamentals such as conditional branches and loops flow logic number systems

Programmable Microcontrollers with Applications Cem Unsalan,H. Deniz Gurhan,2013-08-29 MASTER THE MSP430 MICROCONTROLLER AND DEVELOPMENT PLATFORM Expand your electronics design skills to include the MSP430 family of ultra low power microprocessors with help from this practical guide Programmable Microcontrollers with Applications MSP430 LaunchPad with CCS and Grace thoroughly explains each concept and provides illustrated examples and projects Find out how to configure the MSP430 efficiently program custom functions process analog and digital signals and interface with external components Sample code and reference information are available on the companion website COVERAGE INCLUDES Digital circuit and microcontroller fundamentals MSP430 architecture and CCS development environment LaunchPad platform and Grace configuration tool C and Assembly language programming and debugging Interrupts digital I O and D A and A D converters Data storage and coding practices for flash memory Oscillators clocks low power modes and timers Digital and analog communication ports and protocols Schematics and assembly instructions for 12 projects

Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994 Steven F. Barrett,Daniel J. Pack,2022-06-01 This book provides a thorough introduction to the Texas Instruments MSP430TM microcontroller The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption

and integrated digital and analog hardware Variants of the MSP430 microcontroller have been in production since 1993 This provides for a host of MSP430 products including evaluation boards compilers software examples and documentation A thorough introduction to the MSP430 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful This second edition introduces the MSP EXP430FR5994 and the MSP430 EXP430FR2433 LaunchPads Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access Memory FRAM FRAM is a nonvolatile low power memory with functionality similar to flash memory

Programmable Microcontrollers: Applications on the MSP432 LaunchPad Cem Unsalan,H. Deniz Gurhan,M. Erkin Yucel,2017-12-08 Develop and Deploy Powerful MSP432 Microcontroller Applications Bolster your electronics skills and learn to work with the cutting edge MSP432 microcontroller using the practical information contained in this comprehensive guide Programmable Microcontrollers Applications on the MSP432 LaunchPad clearly explains each concept and features detailed illustrations real world examples and DIY projects Discover how to configure the MSP432 program custom functions interface with external hardware and communicate via WiFi Ideal for practicing engineers and hobbyists alike this hands on guide empowers you to program all microcontrollers by thoroughly understanding the MSP432 Coverage includes MSP432 architecture Code Composer Studio CCS CCS Cloud and Energia MSP432 programming with C and Assembly Digital I O Exceptions and interrupts Power management and timing operations Mixed signal systems Digital and wireless communication Flash memory RAM and direct memory access Real time operating system Advanced applications

MSP430-based Robot Applications Dan Harres,2013-02-22 This book provides a careful explanation of the basic areas of electronics and computer architecture along with lots of examples to demonstrate the interface sensor design programming and microcontroller peripheral setup necessary for embedded systems development With no need for mechanical knowledge of robots the book starts by demonstrating how to modify a simple radio controlled car to create a basic robot The fundamental electronics of the MSP430 are described along with programming details in both C and assembly language and full explanations of ports timing and data acquisition Further chapters cover inexpensive ways to perform circuit simulation and prototyping Key features include Thorough treatment of the MSP430 s architecture and functionality along with detailed application specific guidance Programming and the use of sensor technology to build an embedded system A learn by doing experience With this book you will learn The basic theory for electronics design Analog circuits Digital logic Computer arithmetic Microcontroller programming How to design and build a working robot Assembly language and C programming

How to develop your own high performance embedded systems application using an on going robotics application Teaches how to develop your own high performance embedded systems application using an on going robotics application Thorough treatment of the MSP430 s architecture and functionality along with detailed application specific guidance Focuses on electronics programming and the use of sensor technology to build an embedded system Covers assembly language and C programming

MSP430 Microcontroller Basics John H. Davies,2008-08-21 The MSP430 microcontroller family offers ultra low power mixed signal 16 bit architecture that is perfect for wireless low power industrial and portable medical applications This book begins with an overview of embedded systems and microcontrollers followed by a comprehensive in depth look at the MSP430 The coverage included a tour of the microcontroller s architecture and functionality along with a review of the development environment Start using the MSP430 armed with a complete understanding of the microcontroller and what you need to get the microcontroller up and running Details C and assembly language for the MSP430 Companion Web site contains a development kit Full coverage is given to the MSP430 instruction set and sigma delta analog digital converters and timers

Ti Msp432 Arm Programming for Embedded Systems Muhammad Ali Mazidi,Shujen Chen,Sepehr Naimi,2016-09-16 Why MSP432 The MSP430 is a popular microcontroller designed and marketed by the Texas Instruments TI It comes with some powerful peripherals such as ADC Timer SPI I2C UART and so on It has a 16 bit proprietary RISC architecture meaning only TI makes the products Due to popularity of ARM architecture many semiconductor design companies are moving away from proprietary architecture and adopting the ARM as the CPU of choice in all their designs This is the case with MSP430 The MSP432 is an ARM version of the MSP430 In other words all the MSP430 peripherals are moved to MSP432 with ARM instructions and architecture as the core processor Another major feature of the MSP432 is its lower power consumption which makes it an ideal microcontroller for use in designing low power devices with IoT See the link below http://www.ti.com/lscds/ti/microcontrollers_16bit_32bit/msp_low_power_performance/msp432p4x/overview/page Why this book While there are several MSP430 textbooks on the market currently there is only one textbook for MSP432 This textbook covers the details of the MSP432 peripherals such as ADC Timer SPI I2C and so on with ARM programs It also includes the programs for interfacing of MSP432 to LCD Serial COM port DC motor stepper motor sensors and graphics LCD All the programs in the book are tested using the MSP432 LaunchPad trainer board from TI See the link below http://www.ti.com/tool/MSP_EXP432P401R buy

Microcontroller Programming and Interfacing TI MSP 430 PART I Steven F. Barrett,Daniel J. Pack,2022-11-10 This book provides a thorough introduction to the Texas Instruments MSP430 microcontroller The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware Variants of the MSP430 microcontroller have been in production since 1993 This provides for a host of MSP430 products including evaluation boards compilers and documentation A thorough introduction to the MSP430 line of microcontrollers

programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful

Embedded Systems Design with the Texas Instruments MSP432 32-bit Processor Dung Dang, Daniel J. Pack, Steven F. Barrett, 2016-10-26 This book provides a thorough introduction to the Texas Instruments MSP432™ microcontroller The MSP432 is a 32 bit processor with the ARM Cortex M4F architecture and a built in floating point unit At the core the MSP432 features a 32 bit ARM Cortex M4F CPU a RISC architecture processing unit that includes a built in DSP engine and a floating point unit As an extension of the ultra low power MSP microcontroller family the MSP432 features ultra low power consumption and integrated digital and analog hardware peripherals The MSP432 is a new member to the MSP family It provides for a seamless transition to applications requiring 32 bit processing at an operating frequency of up to 48 MHz The processor may be programmed at a variety of levels with different programming languages including the user friendly Energia rapid prototyping platform in assembly language and in C A number of C programming options are also available to developers starting with register level access code where developers can directly configure the device's registers to Driver Library which provides a standardized set of application program interfaces APIs that enable software developers to quickly manipulate various peripherals available on the device Even higher abstraction layers are also available such as the extremely user friendly Energia platform that enables even beginners to quickly prototype an application on MSP432 The MSP432 LaunchPad is supported by a host of technical data application notes training modules and software examples All are encapsulated inside one handy package called MSPWare available as both a stand alone download package as well as on the TI Cloud development site dev.ti.com The features of the MSP432 may be extended with a full line of BoosterPack plug in modules The MSP432 is also supported by a variety of third party modular sensors and software compiler companies In the back a thorough introduction to the MSP432 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will also find this book very useful Finally middle school and high school students will find the MSP432 highly approachable via the Energia rapid prototyping system

TI ARM Cortex-M LaunchPad Programming by Example Agus Kurniawan, Stellaris LM4F120 and Tiva C Series LaunchPad is great products based ARM Cortex M for learning This book helps you to get started with Stellaris LM4F120 and Tiva C Series LaunchPad

and how to build programs using Energia and Code Composer Studio The following is highlight topics Preparing Development Environment Developing program using Energia Developing program using Code Composer Studio 6 x Accessing board through GPIO Analog I O UART I2C and SPI Providing several code samples to demonstrate how to work

Microcontroller Programming and Interfacing TI MSP 430 PART II Steven F. Barrett, Daniel J. Pack, 2022-11-10 This book provides a thorough introduction to the Texas Instruments MSP430 microcontroller The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware Variants of the MSP430 microcontroller have been in production since 1993 This provides for a host of MSP430 products including evaluation boards compilers and documentation A thorough introduction to the MSP430 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful

Microcontroller Programming and Interfacing TI MSP430 Steven Barrett, Daniel Pack, 2011-03-02 This book provides a thorough introduction to the Texas Instruments MSP430 microcontroller The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware Variants of the MSP430 microcontroller have been in production since 1993 This provides for a host of MSP430 products including evaluation boards compilers and documentation A thorough introduction to the MSP430 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful

Introduction to Embedded Systems Manuel Jiménez, Rogelio Palomera, Isidoro Couvertier, 2013-09-11 This textbook serves as an introduction to the subject of embedded systems design using microcontrollers as core components It develops concepts from the ground up covering the development of embedded systems technology architectural and organizational aspects of controllers and systems processor models and peripheral devices Since microprocessor based embedded systems tightly blend hardware and software components in a single application the book also introduces the subjects of data representation formats data operations and programming styles The practical component of the book is tailored around the architecture of a widely used Texas Instrument s microcontroller the MSP430 and a companion web site offers for download an experimenter s kit and lab manual along with Powerpoint slides and solutions for instructors [MSP430 Microcontroller](#)

Essentials Miroslav Cina,2022-03-14

Microcontroller Programming and Interfacing Texas Instruments MSP430

Steven Barrett,Daniel Pack,2011 This book provides a thorough introduction to the Texas Instruments MSP430 microcontroller The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware Variants of the MSP430 microcontroller have been in production since 1993 This provides for a host of MSP430 products including evaluation boards compilers and documentation A thorough introduction to the MSP430 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful

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Table of Contents Msp430 Launchpad Datasheet

1. Understanding the eBook Msp430 Launchpad Datasheet
 - The Rise of Digital Reading Msp430 Launchpad Datasheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Msp430 Launchpad Datasheet
 - 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 Msp430 Launchpad Datasheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msp430 Launchpad Datasheet
 - Personalized Recommendations
 - Msp430 Launchpad Datasheet User Reviews and Ratings
 - Msp430 Launchpad Datasheet and Bestseller Lists
5. Accessing Msp430 Launchpad Datasheet Free and Paid eBooks
 - Msp430 Launchpad Datasheet Public Domain eBooks
 - Msp430 Launchpad Datasheet eBook Subscription Services
 - Msp430 Launchpad Datasheet Budget-Friendly Options
6. Navigating Msp430 Launchpad Datasheet eBook Formats

- ePub, PDF, MOBI, and More
 - Msp430 Launchpad Datasheet Compatibility with Devices
 - Msp430 Launchpad Datasheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msp430 Launchpad Datasheet
 - Highlighting and Note-Taking Msp430 Launchpad Datasheet
 - Interactive Elements Msp430 Launchpad Datasheet
 8. Staying Engaged with Msp430 Launchpad Datasheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msp430 Launchpad Datasheet
 9. Balancing eBooks and Physical Books Msp430 Launchpad Datasheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msp430 Launchpad Datasheet
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Msp430 Launchpad Datasheet
 - Setting Reading Goals Msp430 Launchpad Datasheet
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Msp430 Launchpad Datasheet
 - Fact-Checking eBook Content of Msp430 Launchpad Datasheet
 - 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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