

PSOC 3 and PSOC 5

# **PSoC<sup>®</sup> 3, PSoC<sup>®</sup> 5 Architecture TRM** (Technical Reference Manual)

Document No. 001-50235 Rev. \*E

December 23, 2010

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# Psoc 3 Technical Reference Manual

**Stefan Helmert**



### **Psoc 3 Technical Reference Manual:**

**Mixed-Signal Embedded Systems Design** Edward H. Currie, 2021-11-27 This textbook introduces readers to mixed signal embedded design and provides in one place much of the basic information to engage in serious mixed signal design using Cypress PSoC Designing with PSoC technology can be a challenging undertaking especially for the novice This book brings together a wealth of information gathered from a large number of sources and combines it with the fundamentals of mixed signal embedded design making the PSoC learning curve ascent much less difficult The book covers sensors digital logic analog components PSoC peripherals and building blocks in considerable detail and each chapter includes illustrative examples exercises and an extensive bibliography

*Introduction to Mixed-Signal, Embedded Design* Alex Doboli, Edward H. Currie, 2010-12-17 This textbook is written for junior senior undergraduate and first year graduate students in the electrical and computer engineering departments Using PSoC mixed signal array design the authors define the characteristics of embedd design embedded mixed signal architectures and top down design Optimized implementations of these designs are included to illustrate the theory Exercises are provided at the end of each chapter for practice Topics covered include the hardware and software used to implement analog and digital interfaces various filter structures amplifiers and other signal conditioning circuits pulse width modulators timers and data structures for handling multiple similar peripheral devices The practical exercises contained in the companion laboratory manual which was co authored by Cypress Staff Applications Engineer Dave Van Ess are also based on PSoC PSoC s integrated microcontroller highly configurable analog digital peripherals and a full set of development tools make it an ideal learning tool for developing mixed signal embedded design skills

*Intelligent Systems Technologies and Applications 2016* Juan Manuel Corchado Rodriguez, Sushmita Mitra, Sabu M. Thampi, El-Sayed El-Alfy, 2016-09-19 This book constitutes the thoroughly refereed proceedings of the second International Symposium on Intelligent Systems Technologies and Applications ISTA 16 held on September 21 24 2016 in Jaipur India The 80 revised papers presented were carefully reviewed and selected from 210 initial submissions and are organized in topical sections on image processing and artificial vision computer networks and distributed systems intelligent tools and techniques and applications using intelligent techniques

*Vehicle and Automotive Engineering 2* Károly Jármay, Betti Bolló, 2018-05-09 This book presents the proceedings of the second Vehicle Engineering and Vehicle Industry conference reflecting the outcomes of theoretical and practical studies and outlining future development trends in a broad field of automotive research The conference s main themes included design manufacturing economic and educational topics

**Entwurf von eingebetteten Mixed-Signal-Systemen** Edward H. Currie, 2024-12-18 Dieses Lehrbuch f hrt den Leser in das Mixed Signal Embedded Design ein und bietet an einem Ort einen Gro teil der grundlegenden Informationen um ein ernsthaftes Mixed Signal Design mit PSoC von Cypress durchzuf hren Das Design mit der PSoC Technologie kann ein anspruchsvolles Unterfangen sein besonders f r den Anf nger Dieses Buch vereint eine F lle von Informationen die aus einer Vielzahl von

Quellen zusammengetragen wurden mit den Grundlagen des Mixed Signal Embedded Designs und macht so den Aufstieg auf der PSoC Lernkurve deutlich weniger schwierig Das Buch behandelt Sensoren digitale Logik analoge Komponenten PSoC Peripheriegeräte und Bausteine sehr detailliert und jedes Kapitel enthält anschauliche Beispiele und eine umfangreiche Bibliographie

**Advanced SOA Tools and Applications** Stanisław Ambroszkiewicz, Jerzy Brzeziński, Wojciech Cellary, Adam Grzech, Krzysztof Zieliński, 2013-10-28 This book presents advanced software development tools for construction deployment and governance of Service Oriented Architecture SOA applications Novel technical concepts and paradigms formulated during the research stage and during development of such tools are presented and illustrated by practical usage examples Hence this book will be of interest not only to theoreticians but also to engineers who cope with real life problems Additionally each chapter contains an overview of related work enabling comparison of the proposed concepts with existing solutions in various areas of the SOA development process This makes the book interesting also for students and scientists who investigate similar issues

**Logic Design** Jaden Mclean & Carmen Hurley, 2019-11-07 The book attempts to achieve a balance between theory and application For this reason the book does not over emphasize the mathematics of switching theory however it does present the theory which is necessary for understanding the fundamental concepts of logic design Written in a student friendly style the book provides an in depth knowledge of logic design Striking a balance between theory and practice it covers topics ranging from number systems binary codes logic gates and Boolean algebra design of combinational logic circuits synchronous and asynchronous sequential circuits etc The main emphasis of this book is to highlight the theoretical concepts and systematic synthesis techniques that can be applied to the design of practical digital systems This comprehensive book is written for the graduate students of electronics and communication engineering electrical and electronics engineering instrumentation engineering telecommunication engineering computer science and engineering and information technology

*Designing Intelligent Healthcare Systems, Products, and Services Using Disruptive Technologies and Health Informatics* Teena Bagga, Kamal Upreti, Nishant Kumar, Amirul Hasan Ansari, Danish Nadeem, 2022-08-08 Disruptive technologies are gaining importance in healthcare systems and health informatics By discussing computational intelligence IoT blockchain cloud and big data analytics this book provides support to researchers and other stakeholders involved in designing intelligent systems used in healthcare its products and its services This book offers both theoretical and practical application based chapters and presents novel technical studies on designing intelligent healthcare systems products and services It offers conceptual and visionary content comprising hypothetical and speculative scenarios and will also include recently developed disruptive holistic techniques in healthcare and the monitoring of physiological data Metaheuristic computational intelligence based algorithms for analysis diagnosis and prevention of disease through disruptive technologies are also provided Designing Intelligent Healthcare Systems Products and Services Using Disruptive Technologies and Health Informatics is written for researchers academicians and

professionals to bring them up to speed on current research endeavours as well as to introduce hypothetical and speculative scenarios

**Inbetriebnahme und Untersuchung der Möglichkeiten des Cypress PSoC Entwicklungssystems** Stefan Helmert, 2011-01-17 Inhaltsangabe Einleitung Im Laufe der Zeit wurden elektronische Geräte immer kleiner und vor allem preisgünstiger dabei steigt die Anzahl der Funktionen weiter Anfangs waren viele Röhren oder Transistoren nötig um einfachste Aufgaben zu lösen Seit der Verfügbarkeit von integrierten Schaltkreisen mittlerer Dichte ist es möglich ein Computersystem auf einer einzigen Leiterplatte unterzubringen Durch ändern der Software kann der gleiche Computer an verschiedene Aufgaben angepasst Da Programme im Betrieb nachgeladen werden können ist eine dynamische Anpassung an die jeweilige Betriebssituation möglich Durch Integration aller für eine programmierbare Steuerung nötigen Elemente auf einem Chip entstand der Mikrocontroller Dieser war anfangs ein Computer geringer Leistung welcher jedoch Programm und Datenspeicher neben dem Mikroprozessor bereits auf dem Chip enthielt Nach und nach wurden leistungsfähigere Systeme mit zusätzlichen Peripheriefunktionen entwickelt Je mehr Komponenten in ein gemeinsames Bauteil verlagert werden umso zuverlässiger und günstiger können die daraus gefertigten Produkte sein denn die Anzahl einzelner Bauteile, Gehäuse und Verbindungsstellen reduziert sich In aktuellen Mikrocontrollern nehmen Peripheriekomponenten wie z.B. USB und Netzwerkschnittstellen mehr Fläche in Anspruch als die Hauptkomponenten Es werden ganze Computersysteme auf einem Chip zusammengefasst daher stammt die Bezeichnung System on Chip Problematisch ist noch die Kombination von Systemen verschiedener Anforderungskategorien auf einem gemeinsamen Chip Das können z.B. Leistungsschalter für hohe Ströme und Spannungen neben hochintegrierten Rechnerstrukturen sowie präzise Messschaltungen sein Deshalb befinden sich der Spannungswandler zur Versorgung des Mikrocontrollers, der Controller selbst sowie analoge Komponenten z.B. Signalverstärker meistens als separate Bauelemente auf der Platine Programmierbare analoge Bausteine z.B. von Analog Devices ermöglichen es verschiedene analoge Funktionen in einem Bauteil zusammenzufassen und deren Parameter zur Laufzeit zu ändern Diesen Bausteine haben den Nachteil dass sie ihre Konfiguration von einem externen Speicher laden der ebenfalls auf die Platine unterzubringen ist Eine dynamische Anpassung ist nur durch einen zusätzlichen Mikrocontroller möglich Eine Ein-Chip-Lösung mit analogen und digitalen programmierbaren Komponenten sowie einem Mikrocontroller mit nicht flüchtigem Programmspeicher wird

*Experimente mit Cypress-PSoC-Mikrocontrollern: Implementierung analoger Filter* Stefan Helmert, 2011-11 Durch rapide technische Entwicklungen ist es in den letzten Jahren möglich geworden ganze komplexe Computersysteme auf einem einzigen Chip unterzubringen Die Firma Cypress Semiconductor Corporation bietet inzwischen eine Ein-Chip-Lösung mit analogen und digitalen programmierbaren Komponenten sowie einem Mikrocontroller mit nicht flüchtigem Programmspeicher an Der Mikrocontroller dieses Programmable System on Chip PSoC programmiert die Funktion digitaler Logikbausteine zur Laufzeit und kann sie jederzeit ändern Das vorliegende Buch untersucht die Einsatzmöglichkeiten des PSoC zur Realisierung analoger Filter Verstärker werden ebenfalls behandelt Alle dargestellten Versuche werden mit

dem CY8C29466 der PSoC 1 Familie durchgef hrt Es werden Tiefp sse und Bandp sse mit 2 4 6 und 8 Polen sowie ein Kerbfilter mit einstellbarer Sperrfrequenz implementiert und anschlie end ausgemessen Anhand eines Instrumentationsverst rkers mit 3000 facher Verst rkung werden die Grenzen des Schaltkreises ausgelotet Da die vom Hersteller zur Verf gung gestellte Entwurfsumgebung keine Berechnung von Filtern mit einer Polzahl h her als 4 zul sst musste ein

Berechnungsprogramm geschrieben werden dessen Funktionsweise ebenfalls kurz erl utert wird **Software Engineering for Embedded Systems** Robert Oshana,2013-04-01 This Expert Guide gives you the techniques and technologies in software engineering to optimally design and implement your embedded system Written by experts with a solutions focus this encyclopedic reference gives you an indispensable aid to tackling the day to day problems when using software engineering methods to develop your embedded systems With this book you will learn The principles of good architecture for an embedded system Design practices to help make your embedded project successful Details on principles that are often a part of embedded systems including digital signal processing safety critical principles and development processes Techniques for setting up a performance engineering strategy for your embedded system software How to develop user interfaces for embedded systems Strategies for testing and deploying your embedded system and ensuring quality development processes Practical techniques for optimizing embedded software for performance memory and power Advanced guidelines for developing multicore software for embedded systems How to develop embedded software for networking storage and automotive segments How to manage the embedded development process Includes contributions from Frank Schirrmeister Shelly Gretlein Bruce Douglass Erich Styger Gary Stringham Jean Labrosse Jim Trudeau Mike Brogioli Mark Pitchford Catalin Dan Udma Markus Levy Pete Wilson Whit Waldo Inga Harris Xinxin Yang Srinivasa Addepalli Andrew McKay Mark Kraeling and Robert Oshana Road map of key problems issues and references to their solution in the text Review of core methods in the context of how to apply them Examples demonstrating timeless implementation details Short and to the point case studies show how key ideas can be implemented the rationale for choices made and design guidelines and trade offs

Proyectos prácticos con PSoC5LP Julián Rolando Camargo López,César Andrey Perdomo Charry,Brayan Andrés Bermúdez Bucurú,2021-02-05 El libro que est a punto de leer contiene una recopilaci n de proyectos pr cticos completos realizados con el kit CY8CKIT 059 PSoC 5LP de Cypress semiconductor utilizando diversos componentes electr nicos Proporciona una gu a completa de configuraci n y programaci n de cada uno de los componentes del microcontrolador aplicados a solucionar un problema pr ctico planteado adem s de complementar todo lo realizado con comentarios para ayudar al lector a comprender los procedimientos realizados *Embedded Systems: An Integrated Approach* LyLa B. Das,2012 Embedded Systems An Integrated Approach is exclusively designed for the undergraduate courses in electronics and communication engineering as well as computer science engineering This book is well structured and covers all the important processors and their applications in a sequential manner It begins with a highlight on the building blocks of the

embedded systems moves on to discuss the software aspects and new processors and finally concludes with an insightful study of important applications This book also contains an entire part dedicated to the ARM processor its software requirements and the programming languages Relevant case studies and examples supplement the main discussions in the text **Online Engineering & Internet of Things** Michael E. Auer, Danilo G. Zutin, 2017-09-14 This book discusses online engineering and virtual instrumentation typical working areas for today's engineers and inseparably connected with areas such as Internet of Things cyber physical systems collaborative networks and grids cyber cloud technologies and service architectures to name just a few It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV2017 held at Columbia University in New York from 15 to 17 March 2017 The conference addressed fundamentals applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking remote services and collaborative working environments as a result of the globalization of education The book also discusses guidelines for education in university level courses for these topics

*Air Force Journal of Logistics*, 1985 **Domina PSoC5LP y Kodular** Julián Rolando Camargo López, César Andrey Perdomo Charry, Óscar Julián Perdomo Charry, 2025-06-05 Domina PSoC5LP y Kodular es una guía práctica para integrar hardware y desarrollar aplicaciones móviles A través de 11 proyectos explora el uso del microcontrolador PSoC5LP y Kodular combinando teoría dispositivos externos y soluciones aplicadas para crear sistemas innovadores El libro se divide en dos partes principales una introducción al PSoC5LP y el desarrollo de aplicaciones en Kodular Sus capítulos abarcan desde los fundamentos hasta la implementación de proyectos prácticos Esta edición actualiza ejemplos y técnicas de programación optimizando la compatibilidad con nuevas versiones de software y herramientas de desarrollo Dirigido a estudiantes de ingeniería electrónica mecatrónica y sistemas así como a profesionales en automatización telecomunicaciones y software embebido también resulta útil para entusiastas del diseño de hardware y programadores que buscan integrar dispositivos con aplicaciones móviles sin necesidad de conocimientos avanzados en programación Incluye 11 proyectos detallados que permiten aplicar conceptos teóricos en situaciones reales facilitando el aprendizaje interactivo Un enfoque en la integración con móviles además explica cómo conectar hardware con aplicaciones móviles mediante Bluetooth algo poco tratado en otros libros Una guía extensa sobre esta plataforma de desarrollo sin código permitiendo crear aplicaciones sin necesidad de programar en lenguajes tradicionales Un enfoque práctico del kit CY8CKIT 059 permitiendo una implementación rápida y sencilla de los proyectos

**Cybernetics, Cognition and Machine Learning Applications** Vinit Kumar Gunjan, P. N. Suganthan, Jan Haase, Amit Kumar, 2021-03-30 This book includes the original peer reviewed research articles from the 2nd International Conference on Cybernetics Cognition and Machine Learning Applications ICCMLA 2020 held in August 2020 at Goa India It covers the latest research trends or developments in areas of data science artificial intelligence neural networks cognitive science and machine learning applications cyber physical systems and cybernetics **Fossil Energy**

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