



CC2591 2.4-GHz RF Front End

1 Device Overview

1.1 Features

- Seamless Interface to 2.4-GHz Low-Power RF Devices from Texas Instruments
- Output Power up to 22 dBm
- Few External Components
 - Integrated Switches
 - Integrated Matching Network
 - Integrated Balun
 - Integrated Inductors
 - Integrated PA
 - Integrated LNA
- Digital Control of LNA Gain by HGM Pin
- 100-nA in Power Down (EN = PAEN = 0)
- Low Transmit Current Consumption (100 mA at 3 V for 20-dBm Out, PAE = 33%)
- Low-Receive Current Consumption
 - 3.4 mA for High-Gain Mode
 - 1.7 mA for Low-Gain Mode
- 4.8-dB LNA Noise Figure, Including T/R Switch and External Antenna Match
- RoHS Compliant 4×4-mm QFN-16 Package
- 2-V to 3.6-V Operation

1.2 Applications

- All 2.4-GHz ISM Band Systems
- Wireless Sensor Networks
- Wireless Industrial Systems
- IEEE 802.15.4 and ZigBee® Systems
- Wireless Consumer Systems
- Wireless Audio Systems

1.3 Description

CC2591 is a cost-effective and high-performance RF front end for low-power and low-voltage 2.4-GHz wireless applications. The device is a range extender for all existing and future 2.4-GHz low-power RF transceivers, transmitters, and System-on-Chip products from TI. CC2591 increases the link budget by providing a power amplifier for increased output power, and an LNA with low noise figure for improved receiver sensitivity. The device provides a small size, high output power RF design with its 4-mm × 4-mm QFN-16 package. The device contains PA, LNA, switches, RF-matching, and balun for simple design of high-performance wireless applications.

Device Information⁽¹⁾

PART NUMBER	PACKAGE	BODY SIZE
CC2591RGV	RGV (16)	4.00 mm × 4.00 mm

(1) For more information, see [Section 7, Mechanical Packaging and Orderable Information](#).



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DP Hallahan



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Advances in Wireless Sensor Networks Limin Sun, Huadong Ma, Dingyi Fang, Jinping Niu, Wei Wang, 2015-05-15 This book constitutes the refereed proceedings of the 8th China Conference of Wireless Sensor Networks held in Xi'an, China, in October-November 2014. The 64 revised full papers were carefully reviewed and selected from 365 submissions. The papers are organized in topical sections on power control and management, network architecture and deployment, positioning and location based services in wireless sensor networks, security and privacy, wireless communication systems and protocols, routing algorithm and transport protocols in wireless sensor networks, wireless communication protocols and sensor data quality, integrity and trustworthiness, Internet of Things, wireless mobile network architecture, in-vehicle network, indoor positioning and location based services, applications of wireless sensor networks.

Real-World Wireless Sensor Networks Koen Langendoen, Wen Hu, Federico Ferrari, Marco Zimmerling, Luca Mottola, 2013-12-19 This edited book presents the results of the 5th Workshop on Real World Wireless Sensor Networks (REALWSN). The purpose of this workshop was to bring together researchers and practitioners working in the area of sensor networks with focus on real world experiments or deployments of wireless sensor networks. Included were nonetheless emerging forms of sensing such as those that leverage smart phones, Internet of Things (RFIDs) and robots. Indeed, when working with real world experiments or deployments, many new or unforeseen issues may arise. The network environment may be composed of a variety of different technologies leading to very heterogeneous network structures. Software development for large scale networks poses new types of problems. The performance of prototype networks may differ significantly from the deployed system, whereas actual sensor network deployments may need a complex combination of autonomous and manual configuration. Furthermore, results obtained through simulation are typically not directly applicable to operational networks. It is therefore imperative for the community to produce results from experimental research. The workshop collected the state of the art in emerging and current research trends dealing with Real World Wireless Sensor Networks with the aim of representing a stepping stone for future research in this field.

4th European Conference of the International Federation for Medical and Biological Engineering 23 - 27 November 2008, Antwerp, Belgium Jos van der Sloten, Pascal Verdonck, Marc Nyssen, Jens Haueisen, 2009-02-04 The 4th European Congress of the International Federation for Medical and Biological Engineering was held in Antwerp, November 2008. The scientific discussion on the conference and in this conference proceedings include the following issues: Signal Image Processing, ICT Clinical Engineering and Applications, Biomechanics and Fluid Biomechanics, Biomaterials and Tissue Repair, Innovations and Nanotechnology, Modeling and Simulation, Education and Professional

Wireless Technologies Krzysztof Iniewski, 2017-12-19 Advanced concepts for wireless technologies present a vision of technology that is embedded in our surroundings and practically invisible. From established radio techniques like GSM 802.11 or Bluetooth to more emerging technologies such as Ultra Wide Band and smart dust motes, a common denominator for

future progress is the underlying integrated circuit technology Wireless Technologies responds to the explosive growth of standard cellular radios and radically different wireless applications by presenting new architectural and circuit solutions engineers can use to solve modern design problems This reference addresses state of the art CMOS design in the context of emerging wireless applications including 3G 4G cellular telephony wireless sensor networks and wireless medical application Written by top international experts specializing in both the IC industry and academia this carefully edited work uncovers new design opportunities in body area networks medical implants satellite communications automobile radar detection and wearable electronics The book is divided into three sections wireless system perspectives chip architecture and implementation issues and devices and technologies used to fabricate wireless integrated circuits Contributors address key issues in the development of future silicon based systems such as scale of integration ultra low power dissipation and the integration of heterogeneous circuit design style and processes onto one substrate Wireless sensor network systems are now being applied in critical applications in commerce healthcare and security This reference which contains 25 practical and scientifically rigorous articles provides the knowledge communications engineers need to design innovative methodologies at the circuit and system level **EDN** ,1999 *IEICE Transactions on Electronics* ,2002 **Microwaves** ,1974

Proceedings of the ... Custom Integrated Circuits Conference ,2000 **Microwave Journal** ,1985 *RF Front-End: World Class Designs* Janine Love,2009-03-13 All the design and development inspiration and direction a hardware engineer needs in one blockbuster book Janine Love site editor for RF Design Line columnist and author has selected the very best RF design material from the Newnes portfolio and has compiled it into this volume The result is a book covering the gamut of RF front end design from antenna and filter design fundamentals to optimized layout techniques with a strong pragmatic emphasis In addition to specific design techniques and practices this book also discusses various approaches to solving RF front end design problems and how to successfully apply theory to actual design tasks The material has been selected for its timelessness as well as for its relevance to contemporary RF front end design issues Contents Chapter 1 Radio waves and propagation Chapter 2 RF Front End Design Chapter 3 Radio Transmission Fundamentals Chapter 4 Advanced Architectures Chapter 5 RF Power Amplifiers Chapter 6 RF Amplifiers CHAPTER 7 Basics of PA Design Chapter 8 Power Amplifiers Chapter 9 RF IF Circuits Chapter 10 Filters Chapter 11 Transmission Lines and PCBs as Filters Chapter 12 Tuning and Matching Chapter 13 Impedance Matching Chapter 14 RF Power Linearization Techniques Hand picked content selected by Janine Love RF DesignLine site editor and author Proven best design practices for antennas filters and layout Case histories and design examples get you off and running on your current project **Implementation and Analysis of RF Front-End Receiving Module for 2.4GHz Bluetooth Application** □□□,2008 [An ISM 2.4 GHz Low Power Low-IF RF Receiver Front-end](#) ,2015 [A 2.4GHz Radio Frequency Energy Harvester Front End](#) ,2023 [RF Circuit Design](#) Christopher Bowick,2011-04-08 It s Back New chapters examples and insights all infused with the timeless concepts and

theories that have helped RF engineers for the past 25 years RF circuit design is now more important than ever as we find ourselves in an increasingly wireless world Radio is the backbone of today's wireless industry with protocols such as Bluetooth Wi-Fi WiMax and ZigBee Most if not all mobile devices have an RF component and this book tells the reader how to design and integrate that component in a very practical fashion This book has been updated to include today's integrated circuit IC and system level design issues as well as keeping its classic wire lead material Design Concepts and Tools Include The Basics Wires Resistors Capacitors Inductors Resonant Circuits Resonance Insertion Loss Filter Design High pass Bandpass Band rejection Impedance Matching The L Network Smith Charts Software Design Tools Transistors Materials Y Parameters S Parameters Small Signal RF Amplifier Transistor Biasing Y Parameters S Parameters RF Power Amplifiers Automatic Shutdown Circuitry Broadband Transformers Practical Winding Hints RF Front End Architectures Software Defined Radios ADC's Effects RF Design Tools Languages Flow Modeling Check out this book's companion Web site at <http://www.elsevierdirect.com/companion.jsp> ISBN 9780750685184 for full color Smith Charts and extra content Completely updated but still contains its classic timeless information Two NEW chapters on RF Front End Design and RF Design Tools Not overly math intensive perfect for the working RF and digital professional that need to build analog RF Wireless circuits

Adaptive Multi-Standard RF Front-Ends Vojkan Vidojkovic, J. van der Tang, Arjan Leeuwenburgh, Arthur H.M. van Roermund, 2008-02-07 In this information era people are living in a society in which processing and exchange of information are vital for their existence Two major issues in such society which are related to how and exchange of information are connectivity and mobility On one hand computers and Internet provide connectivity and allow communication as well as fast access to large amounts of information On the other hand wireless technologies bring mobility People can move and still be able to communicate and have access to various kind of information Therefore the functioning of an information society is unthinkable without the use of computers Internet and wireless technologies The expectations are that in the future they will merge into a unique system for communication access to information as well as their exchange and processing The era of wireless communications started in 1901 when Guglielmo Marconi successfully transmitted radio signals across the Atlantic Ocean From that moment up to now wireless communications experienced explosive growth and became the fastest growing field in the engineering world Pushed by customer requirements new wireless technologies have been emerging very fast Each new generation of wireless technologies have brought new features and more complexity Pushed by market forces to reduce costs the semiconductor industry has provided new technologies for solid state circuits implementation Fortunately at the same time with the cost reduction performance of new technologies has been improving **A 2.4GHz Fully Differential RF**

Sampling Front End in 0.18um CMOS Process Wei Wang, Carleton University. Dissertation. Engineering, Electrical, 2009

Adaptive RF Front-Ends for Hand-held Applications Andre van Bezooijen, Reza Mahmoudi, Arthur H.M. van Roermund, 2010-10-28 The RF front end antenna combination is a vital part of a mobile phone because its performance is

very relevant to the link quality between hand set and cellular network base stations The RF front end performance suffers from changes in operating environment like hand effects that are often unpredictable Adaptive RF Front Ends for Hand Held Applications presents an analysis on the impact of fluctuating environmental parameters In order to overcome undesired behavior two different adaptive control methods are treated that make RF frond ends more resilient adaptive impedance control and adaptive power control Several adaptive impedance control techniques are discussed using a priori knowledge on matching network properties in order to simplify robust 2 dimensional control A generic protection concept is presented based on adaptive power control which improves the ruggedness of a power amplifier or preserves its linearity under extremes It comprises over voltage over temperature and under voltage protection *A Low-Power Sub-GHz RF Receiver Front-End With Enhanced Blocker Tolerance* Zhonghong Jiang,2018 Sub GHz wireless systems have become a popular choice for Internet of Things IoT applications due to their lower cost lower power consumption and longer transmission range compared to their 2 4 GHz counterpart This thesis presents a class AB sub GHz RF receiver front end for low power IoT applications By exploiting transistors class AB operation in both the RF and baseband sections the receiver front end achieves a very low sensitivity and an elevated blocker tolerance while keeping a low power consumption Such performance makes the receiver fully compliant with the short range e g IEEE 802 15 4 application and also suitable for the emerging long range e g LoRa application The proposed RF receiver front end has been implemented in 0 13um CMOS technology operates in the 868 915MHz ISM bands and exhibits an in band gain of 50dB noise figure of 2 7dB out of band IIP3 of 2dBm out of band IIP2 of 37dBm out of band P1dB of 10 5dBm while draining 2 1mA from a 1 2V supply **Silicon-Based RF Front-Ends for Ultra Wideband Radios** Aminghasem Safarian,Payam Heydari,2007-12-28 A comprehensive study of silicon based distributed architectures in wideband circuits are presented in this book Novel circuit architectures for ultra wideband UWB wireless technologies are described The book begins with an introduction of several transceiver architectures for UWB The discussion then focuses on RF front end of the UWB radio Therefore the book will be of interest to RF circuit designers and students *RF Front-end* Janine Sullivan Love,Cheryl J. Ajluni,2009 It all starts with a design this next book in the World Class Designs Series takes the best of our RF front end design material and creates a singular guide and catalyst for future projects

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