

## 2.4-GHz RF Front End, 14-dBm output power

### FEATURES

- Seamless Interface to 2.4-GHz Low Power RF Devices from Texas Instruments
- Up to +14-dBm (200-mW) Output Power
- 0-dB Typical Improved Sensitivity on DCDC504 and DCDC505, DCDC506, and DCDC507
- Few External Components:
  - Integrated Matching
  - Integrated Matching Network
  - Integrated Return
  - Integrated Inductors
  - Integrated PA
  - Integrated LNA
- Output Control via LNA Gain by HCS10 Pin
- 100- $\mu$ A or Power Down (PM = PAEN = 0) Low Standby Current Consumption
  - 10- $\mu$ A at 3.3 V for a Shutdown, PM = 0PM
- Low Reverse Current Consumption
  - 2.5- $\mu$ A for High Gain Mode
  - 1.5- $\mu$ A for Low Gain Mode
- 4-dBm LNA Noise Figure, including 500-MHz and external antenna match
- Shield-Compacted 4- $\mu$ m (0.75- $\mu$ m) Package
- 24-V for 2.8-V Operation

### 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 Utility Systems

### DESCRIPTION

DCDC504 is a monolithic and high performance RF Front End for low-power and low-voltage 2.4-GHz wireless applications.

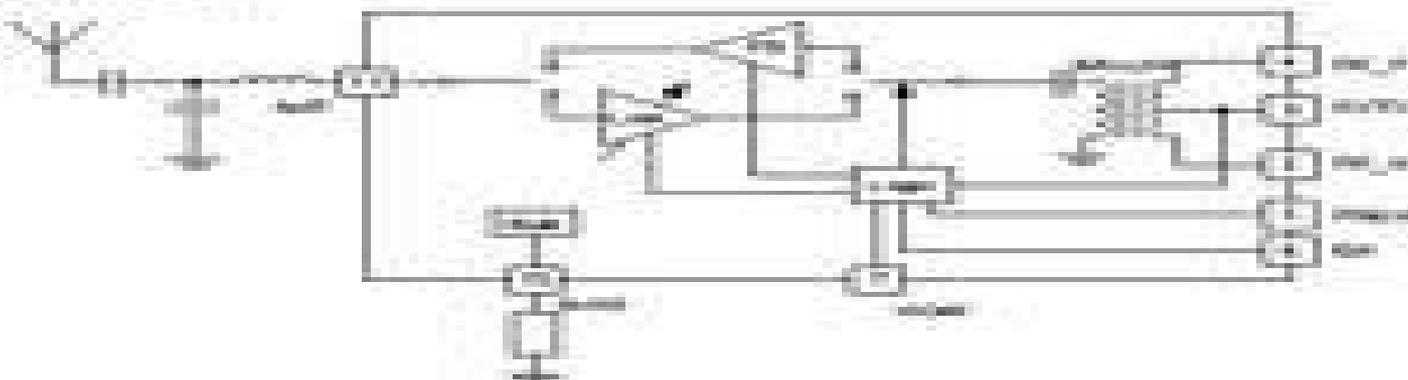
DCDC504 is a single solution for all existing and future 2.4-GHz integrated RF components, transceivers, and System-on-Chip products from Texas Instruments.

DCDC504 includes the LNA, matched for providing a power gain of 10 dB (typical) (GAIN = 10), and an LNA with the noise figure (NF) improved receiver matching.

DCDC504 provides a compact and high output power RF design with the 4- $\mu$ m (0.75- $\mu$ m) package.

DCDC504 contains PA, LNA, matching, RF-matching and return for complete design of high performance wireless applications.

### DCDC504 BLOCK DIAGRAM



# 2.4 Ghz Rf Front End Datasheet Ti

**M Carnoy**



## **2 4 Ghz Rf Front End Datasheet Ti:**

*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 Federation 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 [Adaptive Multi-Standard RF Front-Ends](#) Vojkan Vidojkovic,J. van der Tang,Arjan Leeuwenburgh,Arthur H.M. van Roermund,2008-02-07 N 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 flow 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 kinds 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 has 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 Radio Frequency Energy Harvester Front End*, 2023

**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.

**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 0.13μm 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.

**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.

*A 2.4GHz Fully Differential RF Sampling Front End in 0.18μm 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, 2010-11-30 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 front 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 *Low Power UWB Receiver RF Front-end Design for 6-8.5GHz Wireless Applications*

Chang-Ching Wu, 2009

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