

SYSTEM DESIGN CONSIDERATIONS OF UNIVERSAL UHF RFID READER TRANSCEIVER ICS

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Abstract. *This paper describes the architecture, system analysis and implementation of world-wide regulation compliant UHF RFID reader transceiver for ISO 18000-6 multi-class tags in the ISM band 860 MHz-960 MHz. The presented considerations are based on a system analysis providing evaluation of the transceiver's building blocks parameters in accordance with the required characteristics of a complete RFID reader system, read range, data transmission rate, reading speed and power consumption. The Phase Noise, Noise Figure, Sensitivity, P_{1dB}, Dynamic Range are estimated for the design of a custom 'system-in-package' transceiver, implemented in LTCC-module. Based on the direct-conversion architecture, the reader transceiver integrates RF-blocks, frequency synthesizer, modulation and demodulation functions, low frequency analog baseband. The receiver sensitivity is down to -85 dBm, the transmitter produces output power of +17 dBm.*

Key words: RFID, UHF, LTCC, 'system-in-package', SiGe BiCMOS

1. INTRODUCTION

Radio-Frequency Identification (RFID) UHF band supporting the EPC global Class 1 Generation 2 and ISO 18000-6A/B/C standards, have become indispensable in today's distribution industries, purchasing, manufacturing, energy and healthcare services [1]. A UHF RFID system consists of reader(s), tags, and host computer.

A UHF reader is a system with an integrated transceiver module as a core. As shown in Fig.1, RFID reader transceiver consists of a UHF receiver and transmitter front-ends, frequency synthesizer, low frequency analog baseband, analog-to-digital (ADC) and digital-to-analog (DAC) converters, and digital baseband for data processing and control [2], [3]. The UHF front-end of a RFID reader transceiver contains a low noise amplifier (LNA), power amplifier (PA) (required for improving sensitivity of receiver path and output power level in forward link), quadrature RF modulator and demodulator. The low frequency analog baseband of a RFID reader transceiver contains an active bandpass

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System Design Considerations Of Universal Uhf Rfid Reader

Etienne Perret



System Design Considerations Of Universal Uhf Rfid Reader:

Handbook of Smart Antennas for RFID Systems Nemai Chandra Karmakar, 2011-02-25 The Handbook of Smart Antennas for RFID Systems is a single comprehensive reference on the smart antenna technologies applied to RFID. This book will provide a timely reference book for researchers and students in the areas of both smart antennas and RFID technologies. It is the first book to combine two of the most important wireless technologies together in one book. The handbook will feature chapters by leading experts in both academia and industry offering an in-depth description of terminologies and concepts related to smart antennas in various RFID systems applications. Some topics are adaptive beamforming for RFID smart antennas, multiuser interference suppression in RFID tag reading, phased array antennas for RFID applications, smart antennas in wireless systems, and market analysis and case studies of RFID smart antennas. This handbook will cover the latest achievements in the designs and applications for smart antennas for RFID as well as the basic concepts, terms, protocols, systems, architectures, and case studies in smart antennas for RFID readers and tags.

Multiresonator-Based Chipless RFID Stevan Preradovic, Nemai Chandra Karmakar, 2012-01-07 This vital new resource offers engineers and researchers a window on important new technology that will supersede the barcode and is destined to change the face of logistics and product data handling. In the last two decades, radio frequency identification has grown fast with accelerated take-up of RFID into the mainstream through its adoption by key users such as Wal-Mart, K-Mart, and the US Department of Defense. RFID has many potential applications due to its flexibility, capability to operate out of line of sight, and its high data-carrying capacity. Yet despite optimistic projections of a market worth 25 billion by 2018, potential users are concerned about costs and investment returns. Clearly demonstrating the need for a fully printable chipless RFID tag as well as a powerful and efficient reader to assimilate the tag's data, this book moves on to describe both. Introducing the general concepts in the field, including technical data, it then describes how a chipless RFID tag can be made using a planar disc-loaded monopole antenna and an asymmetrical coupled spiral multi-resonator. The tag encodes data via the spectral signature technique and is now in its third-generation version with an ultra-wide band UWB reader operating at between 5 and 10.7 GHz.

Chipless and Conventional Radio Frequency Identification: Systems for Ubiquitous Tagging

Chandra Karmakar, Nemai, 2012-05-31 Radio Frequency Identification (RFID) is a wireless tracking and data capturing technique for automatic identification, tracking, security, surveillance, logistics, and supply chain management. RFID tags, which have been successfully employed in many industries including retail and healthcare, have provided a multitude of benefits but also currently remain very costly. Chipless and Conventional Radio Frequency Identification Systems for Ubiquitous Tagging explores the use of conventional RFID technology as well as chipless RFID technology, which provides a cheaper method of implementation, opening many doors for a variety of applications and industries. This practical reference, designed for researchers and practitioners, investigates the growing field of RFID and its promising future. *Proceedings of the 3rd*

International Conference on Internet of Things, Communication and Intelligent Technology Jian Dong, Long Zhang, Tongxing Zheng, 2025-05-26 As the Internet of Things IoT continues to evolve and integrate more deeply into various industries the IoTCIT 2024 conference is emerging as a critical platform for sharing insights and advancements in IoT and its symbiotic technologies This year we are broadening our horizons to include sophisticated communication systems IoT applications and the burgeoning field of intelligent technologies The proceedings will feature a robust selection of papers spotlighting the latest developments in both fundamental and applied aspects of communications From the intricacies of communication signal processing to the frontiers of next generation 6G mobile communications and the critical role of smart grid and power line communication systems attendees will gain a comprehensive understanding of the current state and future directions of communication technologies This exploration will not only cover traditional wired and wireless communications but will also extend to emerging domains such as radio frequency and microwave communications satellite communications and the pivotal area of green communication systems On the IoT front the proceedings of IoTCIT 2024 will delve into the expansive world of wireless sensor and actuator networks vehicle networks and the integration of IoT with big data among other topics As intelligent technologies transformative areas such as modeling and simulation of information systems distributed computing ubiquitous computing and cloud computing are discussed These discussions are set to cover both theoretical frameworks and practical applications aiming to bridge the gap between academic research and industry solutions This convergence of technology and discourse will attract participants from students to professionals and researchers and provide more practical guidance and support for them This book will serve as a reference for students professionals and researchers to further understand and apply IoT and intelligent technologies

RFID Design Principles Harvey Lehpamer, 2012 This edition features numerous updates and new and expanded material on emerging topics such as the medical applications of RFID and new ethical challenges in the field Offering a detailed understanding of RFID design essentials key applications and important management issues it explores the role of RFID technology in supply chain management intelligent building design transportation systems military applications and numerous other applications and explains the design of RFID circuits antennas interfaces data encoding schemes and complete systems Starting with the basics of RF and microwave propagation discusses major system components including tags and readers This hands on reference distills the latest RFID standards and examines RFID at work in supply chain management intelligent buildings intelligent transportation systems and tracking animals RFID is controversial among privacy and consumer advocates and this book looks at every angle concerning security ethics and protecting consumer data

RFID-enabled Sensor Design and Applications Amin Rida, Li Yang, Manos M. Tentzeris, 2010 RFID radio frequency identification is an emerging communication system technology and one of the most rapidly growing segments of today's automatic identification data collection industry This cutting edge resource offers you a solid understanding of the basic technical principles and applications of RFID enabled sensor systems The book

provides you with a detailed description of RFID and itOCOs operation along with a fundamental overview of sensors and wireless sensor networks Moreover this practical reference gives you step by step guidance on how to design RFID enabled sensors that form a wireless sensor network You also find detailed coverage of state of OCothe art RFID sensor technology and worldwide applications *Towards Green ICT* Ramjee Prasad,Shingo Ohmori,Dina Simunic,2022-09-01 ICT is playing an increasingly important role in both business and individual s private life It has increased international interconnectedness and speed up the process of globalization But on the other side the total energy consumption by the communication and networking devices and the relevant global CO emission is increasing exponentially ICT has in many ways a vital role to play It accounts for about two percent of global CO emissions Telecommunications applications can have a direct tangible impact on lowering greenhouse gas emissions power consumption and achieve efficient recycling of equipment waste This book is the outcome of the special session on Green Communications at The 12th International Symposium on Wireless Personal Multimedia Communications WPMC held in September 09 in Sendai Japan To the best of the editors knowledge this is the first book on the Green Information and Communication Technologies ICT and can be considered a milestone and a key tool aimed at driving the industrial scientific and academic efforts of the international community to guarantee a greener future to the whole planet Radio Frequency Identification and Sensors Etienne Perret,2014-12-04 This book deals with the field of identification and sensors more precisely the possibility of collecting information remotely with RF waves RFID The book introduces the technology of chipless RFID starting from classical RFID and barcode and explores the field of identification and sensors without wire without batteries without chip and with tags that can even be printed on paper A technique for automatic design of UHF RFID tags is presented aiming at making the tags as insensitive as possible to the environment with the ability to increase the reading range reliability or conversely making them sensitive in order to produce sensors meanwhile keeping their unique ID The RFID advantages are discussed along with its numerous features and comparisons with the barcode technology are presented After that the new chipless RFID technology is introduced on the basis of the previous conclusions Original technological approaches are introduced and discussed in order to demonstrate the practical and economic potential of the chipless technology *Solid State Design* ,1962 *Science Abstracts* ,1960 **Automatic Control** ,1963 **Solid State Journal** ,1962 **U.S. Government Research Reports** ,1963 Missiles & Space ,1960 **Ocean Engineering and the Environment** ,1985 *CQ* ,1985 **Electronic Products Magazine** ,1971 *Microwave Journal* ,1998 **Proceedings of the IRE**. Institute of Radio Engineers,1954 **Government Reports Announcements & Index** ,1976-03

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