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Long Range HF Library Handheld Reader

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The application note is intended to give a practical guide to choose the matching topology, to design antennas and calculate the matching components for the MFRC52x/PN51x/PN53x RF part. It gives a guideline starting with the recommended RF matching circuitry description as well as a dedicated description of the transmitter

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Antenna design guide for MFRC52x, PN51x and PN53x Antennas are everywhere these days, most of the mainstream technologies like smartphones, security, and IoT devices use antennas to communicate between them and that's why RF becomes one of the most fascinating and robust corners of engineering and design. So, my goal today is to give readers

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Antenna design guide for MFRC52x, PN51x and PN53x Hi All, I have some question regarding RF Layouts , I have

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Pr54x And Pr53x worked extensively on analog layout for baseband signal , Page 3/10. Read PDF Antenna Design And Rf Layout Guidelines can someone suggest how RF layout are different, I do have idea about coupling

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The MFRC52x it self is described in the corresponding data sheet: • “Product Data Sheet - MFRC522 Contactless Reader IC”. • “Product Data Sheet - MFRC523 Contactless Reader IC”. Antenna design and tuning is described in following application notes: • “Application Note - Micore Reader IC family Directly Matched Antenna Design”

## *MFRD52x Mifare® Contactless Smart Card Reader Reference Design*

AN11019: CLRC663, MFRC630, MFRC631, SLRC610 Antenna design7

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Define target impedance To optimize RF output power or battery life EMC filter design Filtering of unwanted harmonics Measure antenna coil Determine LCR values of the antenna coil Calculate matching components

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Therefore, an optimal antenna design is important for low-energy applications. It is generally believed that antenna design is difficult because the antenna is sensitive to PCB size, nearby plastic casing, and other factors, that can detune it.

## *Antenna Design Guide*

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Antenna Design And Rf Layout

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Antenna Design Guide for the TRF79xxA

1 Introduction When beginning a new antenna design, the targeted application and which NFC/HF RFID technologies will be used for the application has an influence on the decisions made when designing and tuning the antenna. 1.1 Q Factor

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Micore Reader IC Family; Directly Matched Antenna Design 3. Basic

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parameter design for 106kbit/s A complete Micore reader antenna design can be done in steps based on the certain number of given parameters given below (see section 3.1). Every step is described in one of the following sections . The best way to design antenna is to follow the steps

*AN - chinaidcard.com*

Keywords Antenna tuning, Measurement, PN512, CLRC663, NFC and Reader IC, MiniVNA Abstract This application note gives a guideline how to measure and tune/match a NFC and Reader IC antenna with the MiniVNA network analyzer tool. The MiniVNA allows a cost efficient antenna design.

*AN11535 Measurement and tuning of a NFC and Reader IC ...*

This application note describes different design concepts using multiple antennas

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on a single reader IC. 2. Basic concepts  
2.1 Introduction to multiple antennas A contactless reader/NFC design might require multiple tap points for credentials and/or phones. In order to keep the system cost as low as possible, this functionality can be

*AN11314 Multiple Antennas on Single Reader IC*

AN1445 Antenna design guide for MFRC52x, PN51x, PN53x; AN1444 RF Design Guide including Excel Calculation sheet (REV 1.3 ) This application notes provides guidance on antenna and RF design for NFC devices MFRC522, MFRC523, PN511, PN512, PN531, PN532

*PEGODA Contactless Smart Card Reader | NXP*

–PN7462 family Antenna design guide

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*NFC Antenna Design Tool User Guide*  
Philips Semiconductors Rev. 1.0  
November 2002 13.56 MHz RFID  
Proximity Antennas mifare® (14443A) 3  
PUBLIC 1 INTRODUCTION 1.1 Purpose and Scope This application note is intended to support RF-related design–in of Micore reader ICs.

*mifare® (14443A) 13.56 MHz RFID Proximity Antennas*  
Quad Antenna Design is one more free

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antenna design and analysis software for Windows. Quad antenna is a type of directional wire radio antenna mainly used on the VHF and UHF bands. This type of antenna is quite similar to Yagi-Uda antenna but instead of using a straight element, this antenna uses a square , round, or some other shaped closed looped elements .

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