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antenna design - designed by BitBox Ltd.  
Long Range HF Library Handheld Reader

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## *Antenna Design Guide For Mfrc52x*

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

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And Pn53x as a dedicated description of the transmitter

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information about a The RF part block diagram It shows a recommended circuitry design with all relevant components required to connect an antenna to the PN51x/PN53x It also Antenna Design Guide Antenna Design Guide www.cypress.com Document ...

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*[MOBI] Antenna Design And Rf Layout  
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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

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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

*Antenna Design And Rf Layout Guidelines*

Antenna design guide for MFRC52x,  
PN51x and PN53x Hi All, I have some

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question regarding RF Layouts , I have 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 -

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Micore Reader IC family Directly  
Matched Antenna Design”

*MFRD52x Mifare® Contactless Smart  
Card Reader Reference Design*

AN11019: CLRC663, MFRC630,

MFRC631, SLRC610 Antenna design7

AN1445: Antenna design guide for

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MFRC52x, PN51x, PN53x 17 1 2 3 5

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

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factors, that can detune it.

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*Antenna Design Guide for the TRF79xxA*  
1 Introduction When beginning a new

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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

*Antenna Design Guide for the TRF79xxA*

*Page 24/35*

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*(Rev. C)* Pn53x

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

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And Pn53x 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

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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

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And Pn53x design concepts using multiple antennas 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

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*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

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design for NFC devices MFRC522,  
MFRC523, PN511, PN512, PN531,  
PN532

*PEGODA Contactless Smart Card Reader  
/ NXP*

–PN7462 family Antenna design guide  
–CLRC663, MFRC630, MFRC631,

*Page 30/35*

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SLRC610 Antenna Design Guide

–PN7150 Antenna Design and Matching  
Guide –PN7120 Antenna Design and  
Matching Guide. NXP Semiconductors  
UM11232 NFC Antenna Design Tool  
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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

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*mifare® (14443A) 13.56 MHz RFID  
Proximity Antennas*

Quad Antenna Design is one more free antenna design and analysis software for Windows. Quad antenna is a type of directional wire radio antenna mainly used

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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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