

Quick Start Guide

OM2NTA5KIT

Exploring the exclusive features of NTAG 5 switch, NTAG 5 link and NTAG 5 boost



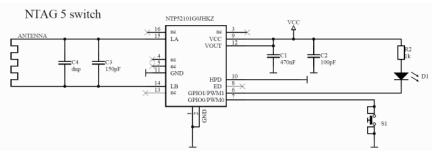
GET TO KNOW THE NTAG 5 switch board



Front side of NTAG 5 switch demo board

Quick Start Guide

NTAG 5 switch board schematics

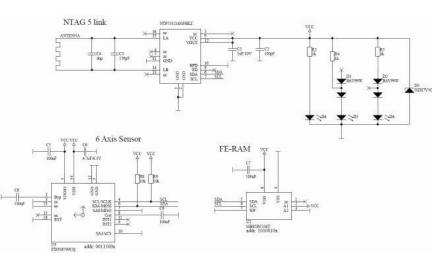


GET TO KNOW THE NTAG 5 link board

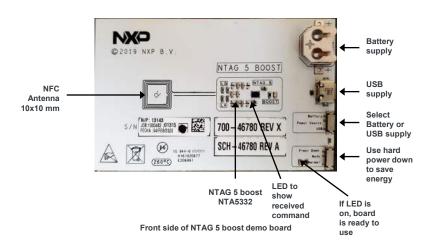


Front side of NTAG 5 link demo board

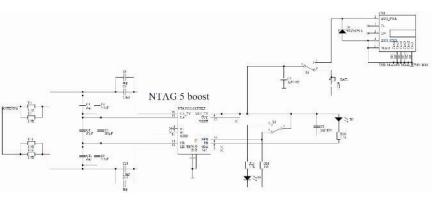
NTAG 5 link board schematics



GET TO KNOW THE NTAG 5 boost board



NTAG 5 boost board schematics





When no

board is

status switches to "polling"

connected,

NTAG 5 show card tab



Use side

menu to navigate

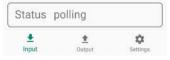
NTAG 5 demo navigation



When button is pressed, bulb goes on

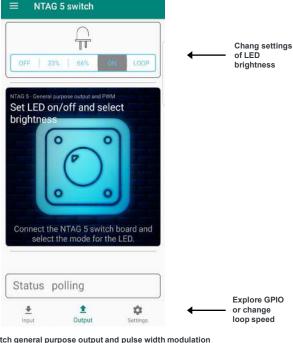


When board is connected, status switches to "activated"



Explore GPO and PWM

NTAG 5 switch general purpose input



NTAG 5 switch general purpose output and pulse width modulation

09:25

When

status

switches to

"activated"

board is connected.

Configure how

fast brightness

changes



NTAG 5 switch settings

Explore GPIO and PWM features



X and Y

When

status

switches to

"activated"

board is connected,

orientation of 6 axis sensor

NTAG 5 link read sensor

Explore memory

configure output

extension or

voltage

Write NXP

photo from

camera to

logo or

FRAM

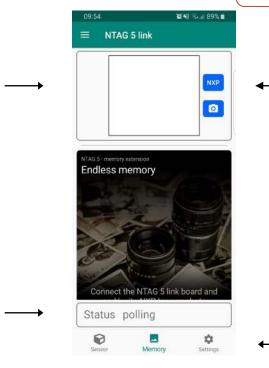


Image read

from FRAM

displayed

When

status

switches to

"activated"

board is connected,

will be

NTAG 5 link extend user memory

Explore

configure

sensor tag or

output voltage



Change output voltage. You need to reconnect the board afterwards to make settings



Explore sensor tag or memory extension

When board is connected, status switches to "activated"

Image read

from FRAM

displayed

will be



NTAG 5 link set output voltage

Quick Start Guide

NTAG 5 switch FEATURES

- ISO/IEC 15693 compliant
- NFC Forum Type 5 Tag compliant
- General Purpose Input and Output (GPIO)
- · Pulse Width Modulation (PWM)
- · Regulated Energy Harvesting
- 512 byte user memory
- Up to three configurable memory areas
- · 32 or 64-bit password protection
- ECC based reprogrammable originality signature

On top NTAG 5 link FEATURES

- I²C master and slave up to 400 kHz
- 2048 byte user memory
- · 256 byte SRAM
- · AES mutual authentication

On top NTAG 5 boost FEATURE

· Active Load Modulation

STEP-BY-STEP INSTRUCTIONS

Install App



Install NTAG 5 demo app from Google Play Store or Apple App Store

2 Switch on NFC on mobile phone

In the settings menu of your NFC enabled mobile phone

STEP-BY-STEP INSTRUCTIONS (cont.)

3 Explore NTAG 5 switch demo board

Make sure status is "activated" Press button on board to explore GPIO functionality

Select ON/PWM/OFF to explore GPIO and PWM functionality

Change brightness of LED in a loop

4 Explore NTAG 5 link demo board

Make sure status is "activated"

Move board with phone to see X/Y orientation

Write/read photo to/from the FRAM NOTE: FRAM is not initialized. Writing the NXP logo or a photo to the FRAM should be the first step

Change Energy harvesting voltage

5 Explore read range of boards

Status changes from "polling" to "activated" as soon board is detected

6 Curios? Order our Development board

On NTAG 5 customer development board web page you will find all documentation, source files and the boards itself

SUPPORT

Visit www.nxp.com/support for a list of phonenumbers within your region.

WARRANTY

Visit **www.nxp.com/warranty** for complete warranty information.



Download installation software and documentation

"Jump Start Your Design" at nxp.com/demoboard/OM2NTx5332

www.nxp.com

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