

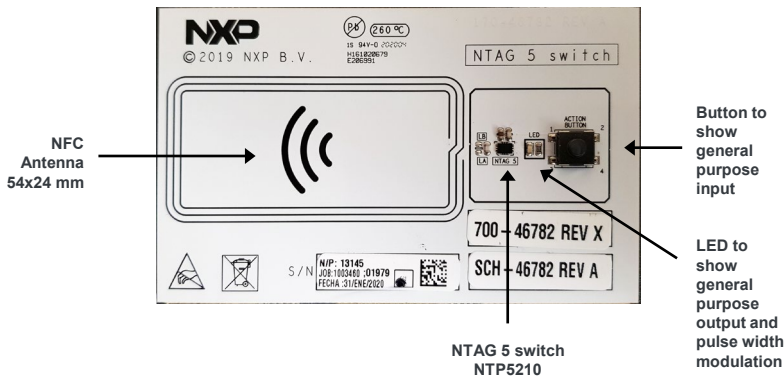


Quick Start Guide

OM2NTA5KIT

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

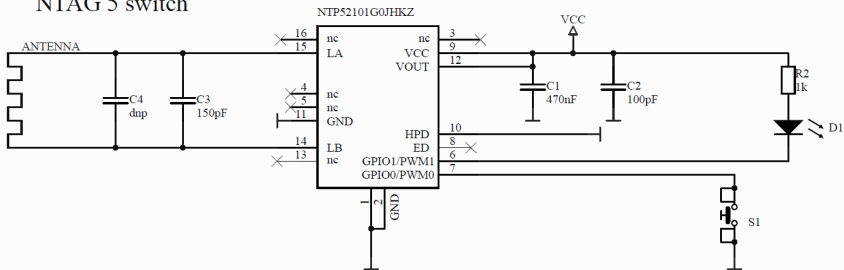
GET TO KNOW THE NTAG 5 switch board



Front side of NTAG 5 switch demo board

NTAG 5 switch board schematics

NTAG 5 switch



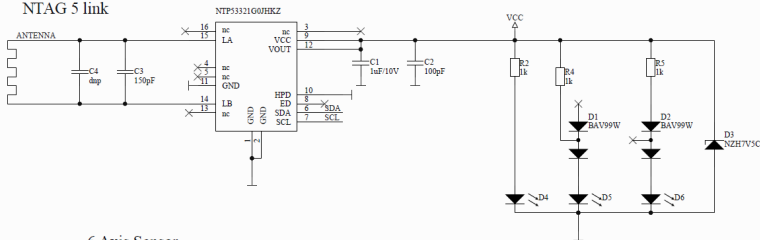
GET TO KNOW THE NTAG 5 link board



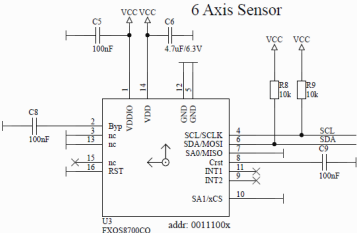
Front side of NTAG 5 link demo board

NTAG 5 link board schematics

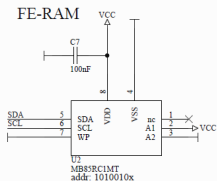
NTAG 5 link



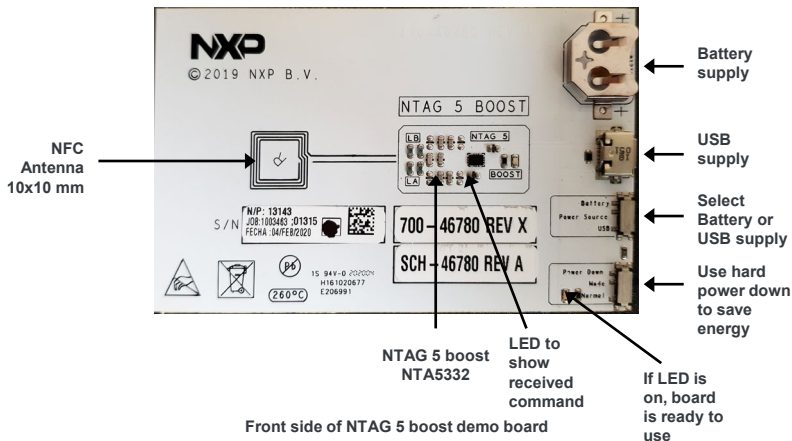
6 Axis Sensor



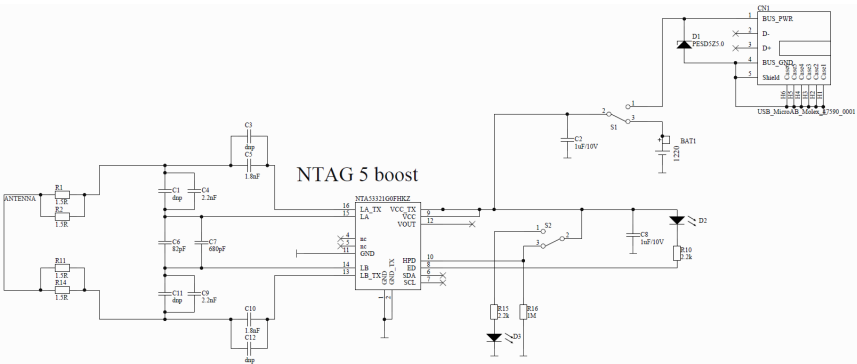
FE-RAM

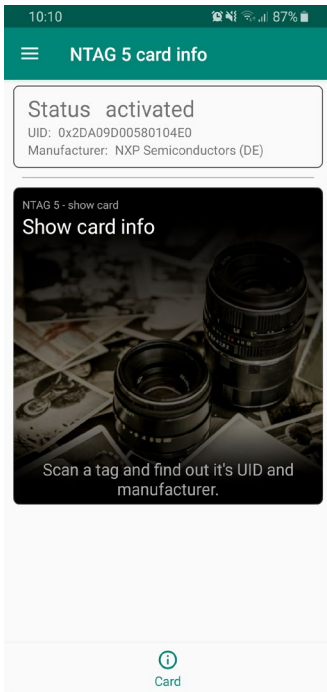


GET TO KNOW THE NTAG 5 boost board



NTAG 5 boost board schematics



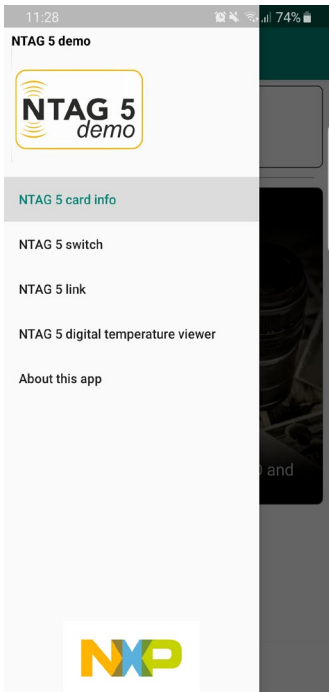


When no board is connected, status switches to "polling"

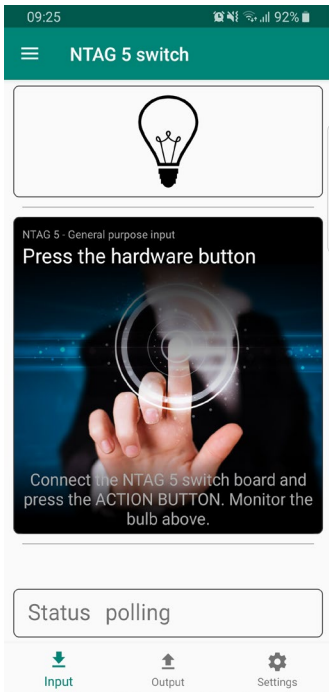


NTAG 5 show card tab

Use side menu to navigate →



NTAG 5 demo navigation

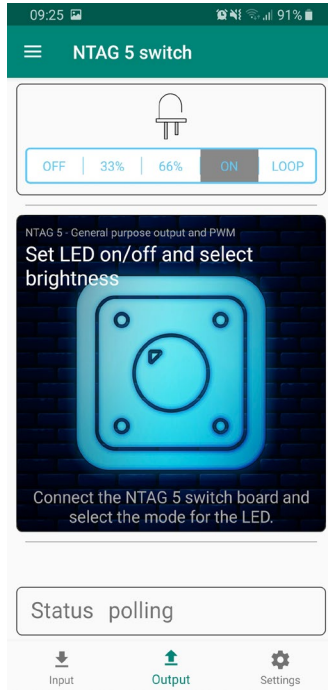


When button is pressed, bulb goes on

When board is connected, status switches to "activated"

Explore GPO and PWM

NTAG 5 switch general purpose input

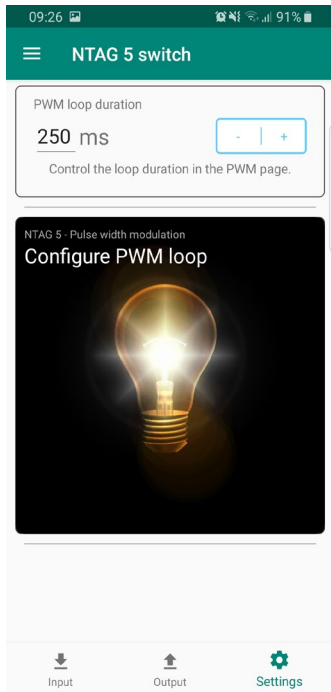


← Change settings of LED brightness

→ When board is connected, status switches to "activated"

← Explore GPIO or change loop speed

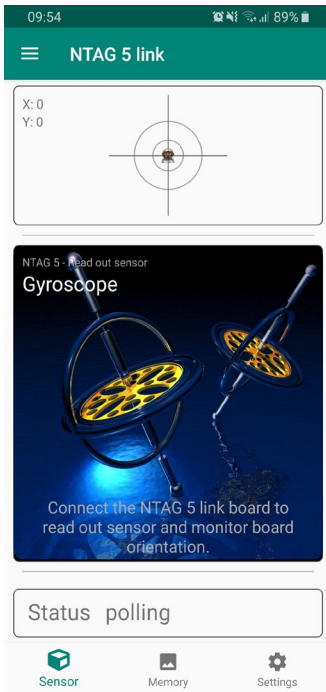
NTAG 5 switch general purpose output and pulse width modulation



← Configure how fast brightness changes

← Explore GPIO and PWM features

NTAG 5 switch settings



X and Y
orientation
of 6 axis
sensor



When
board is
connected,
status
switches to
"activated"



Explore memory
extension or
configure output
voltage



NTAG 5 link read sensor

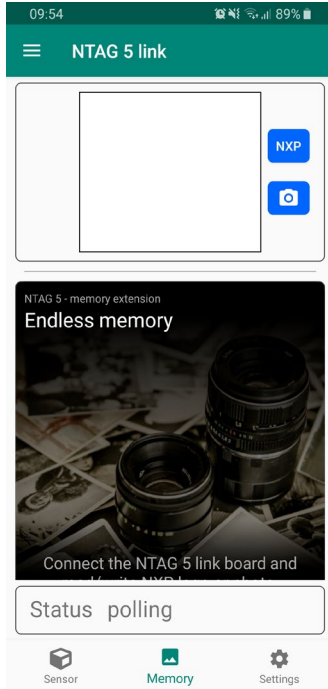


Image read from FRAM will be displayed



Write NXP logo or photo from camera to FRAM



When board is connected, status switches to "activated"



Explore sensor tag or configure output voltage



NTAG 5 link extend user memory



Image read from FRAM will be displayed



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



When board is connected, status switches to "activated"



Explore sensor tag or memory extension



NTAG 5 link set output voltage

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

1 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 Curious? 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.



Get Started

Download installation software and documentation

“Jump Start Your Design” at
nxp.com/demoboard/OM2NTx5332

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. © 2016 NXP B.V.