

Quick Start Guide

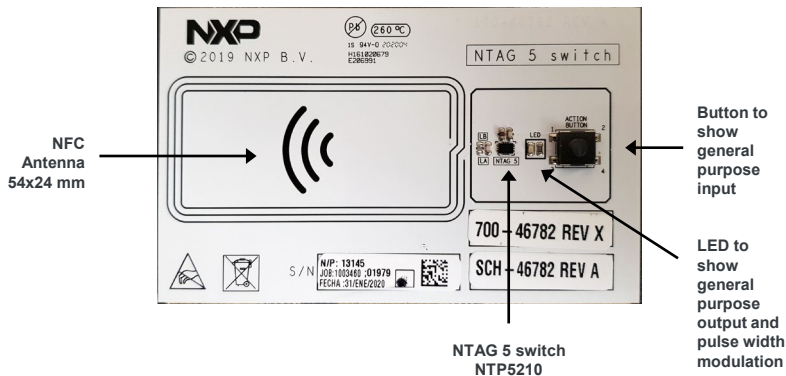
OM2NTA5KIT

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

NTAG 5 FAMILY - DEMOBOARDS



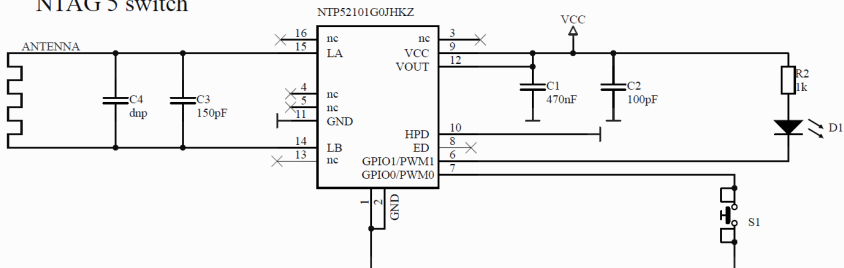
GET TO KNOW THE NTAG 5 switch board



Front side of NTAG 5 switch demo board

NTAG 5 switch board schematics

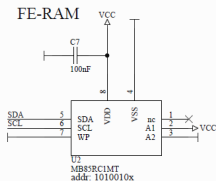
NTAG 5 switch



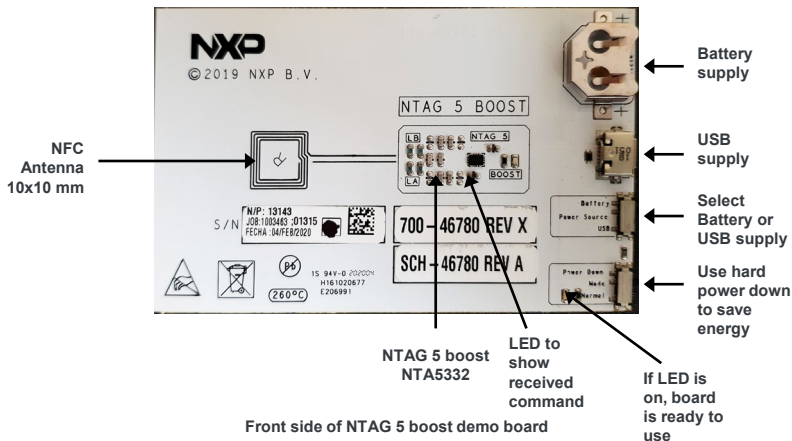
GET TO KNOW THE NTAG 5 link board



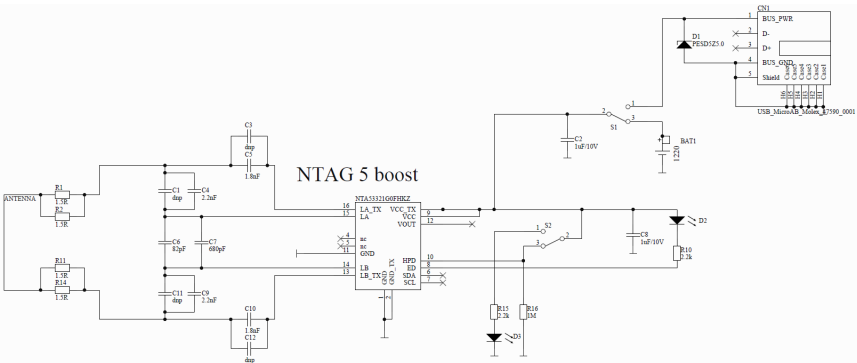
Front side of NTAG 5 link demo board



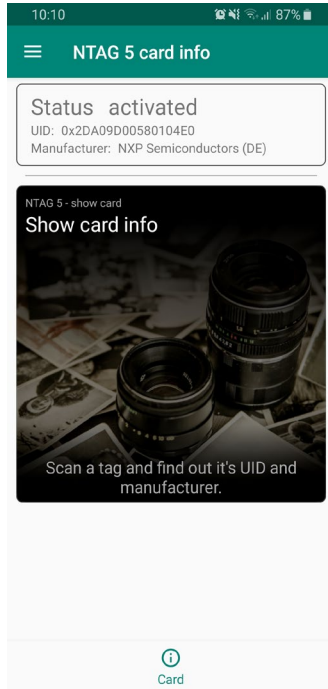
GET TO KNOW THE NTAG 5 boost board



NTAG 5 boost board schematics

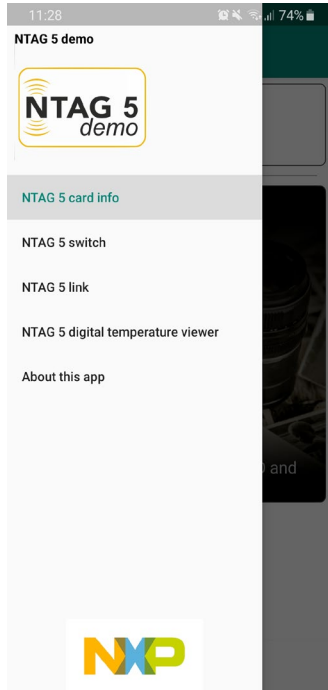


When no
board is
connected,
status
switches to
"polling"

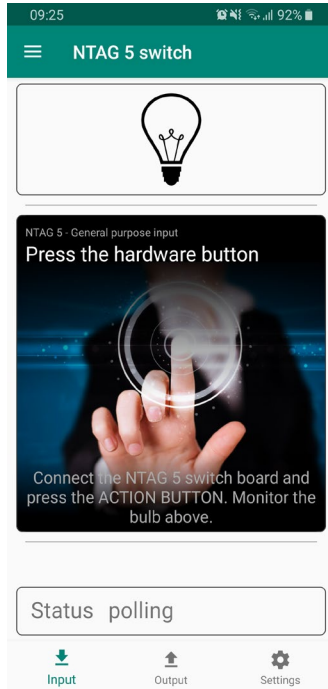


NTAG 5 show card tab

Use side
menu to
navigate →



NTAG 5 demo navigation



When board is connected, status switches to "activated"

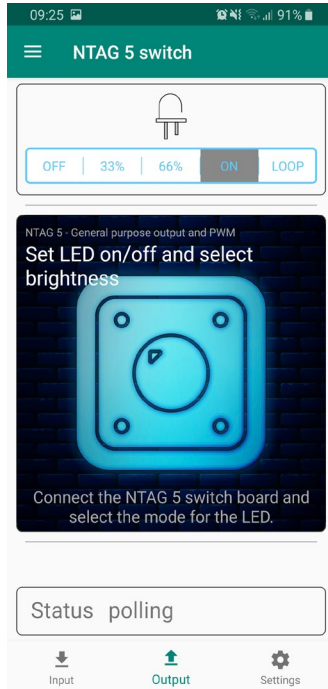


When button is pressed, bulb goes on



Explore GPO and PWM

NTAG 5 switch general purpose input

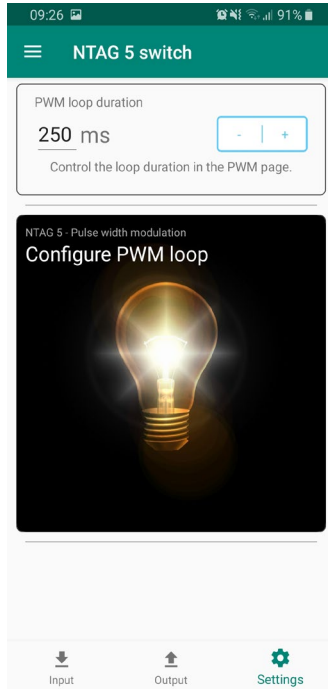


Change settings
of LED
brightness

When
board is
connected,
status
switches to
"activated"

Explore GPIO
or change
loop speed

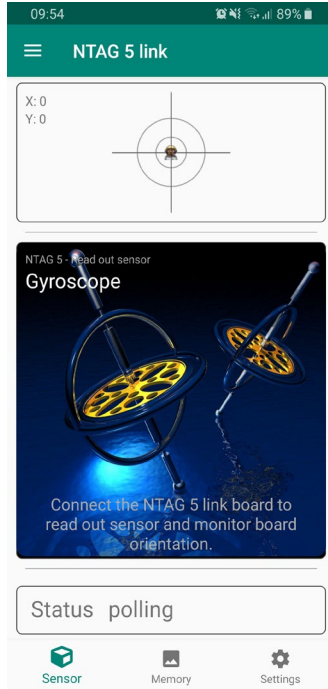
NTAG 5 switch general purpose output and pulse width modulation



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

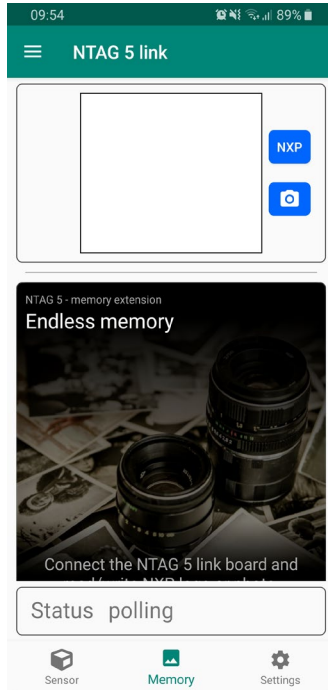


NTAG 5 link read sensor

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 re-
connect 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

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