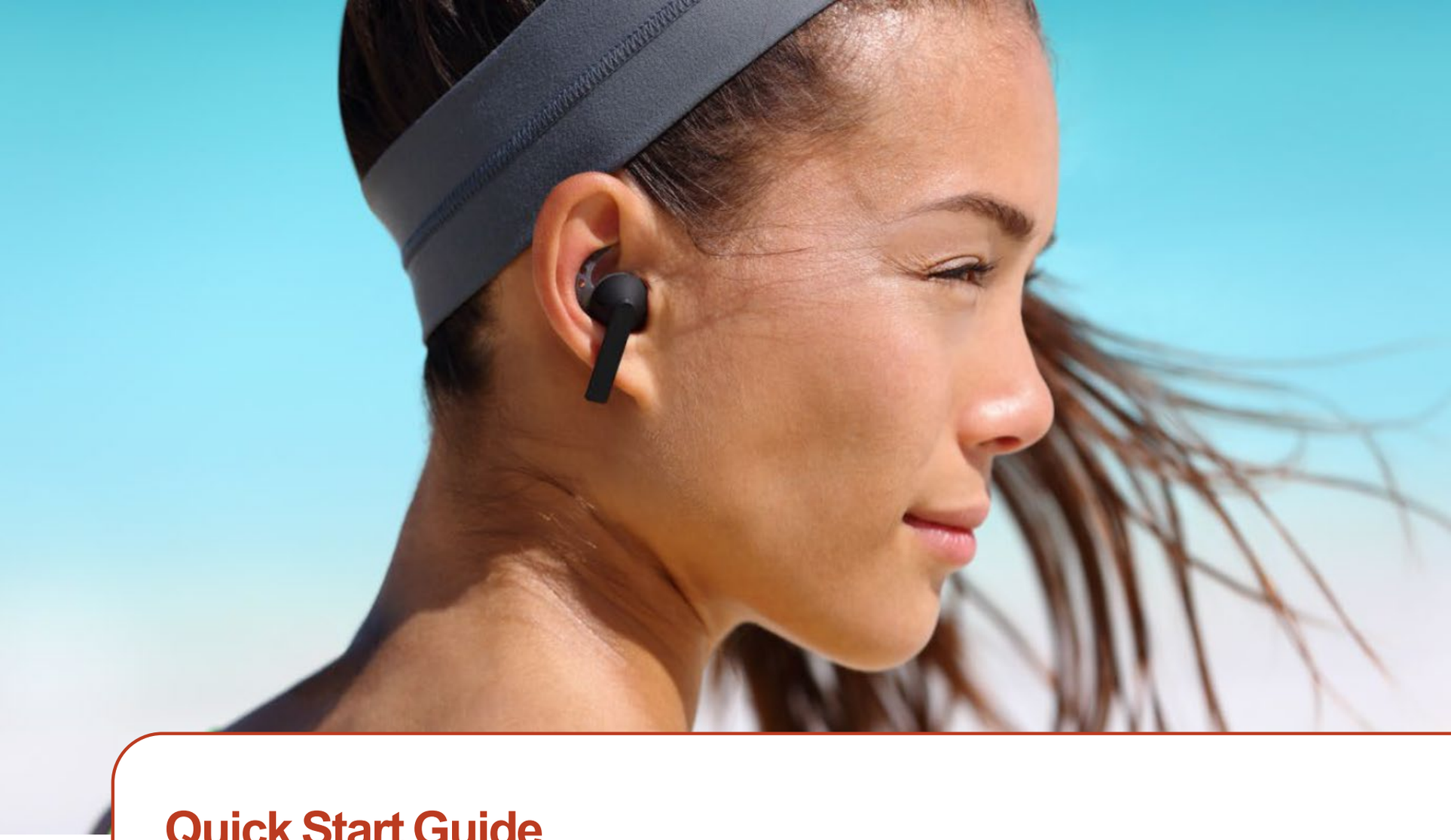


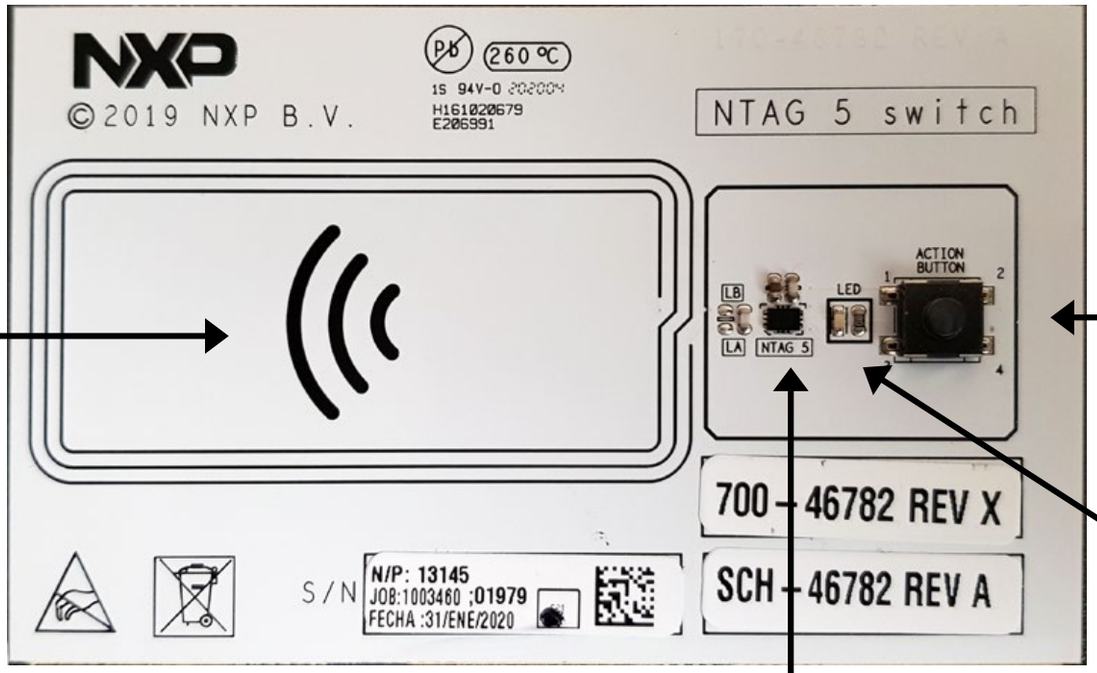
Quick Start Guide

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



NFC Antenna 54x24 mm

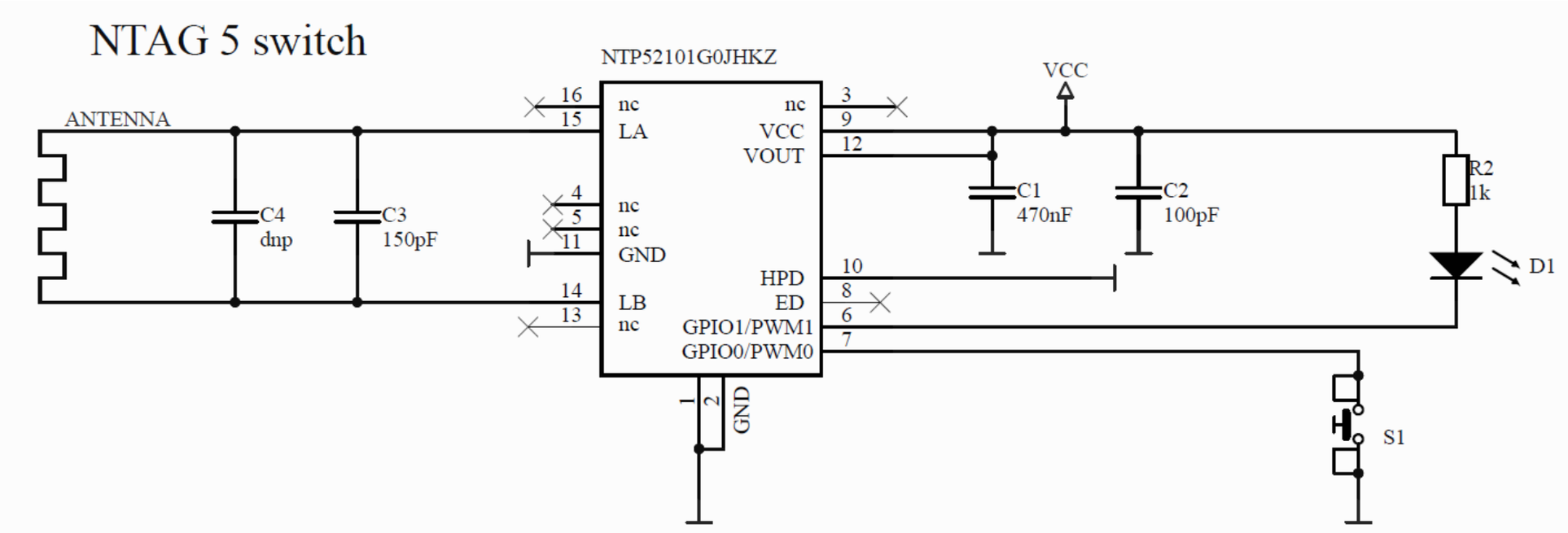
Button to show general purpose input

LED to show general purpose output and pulse width modulation

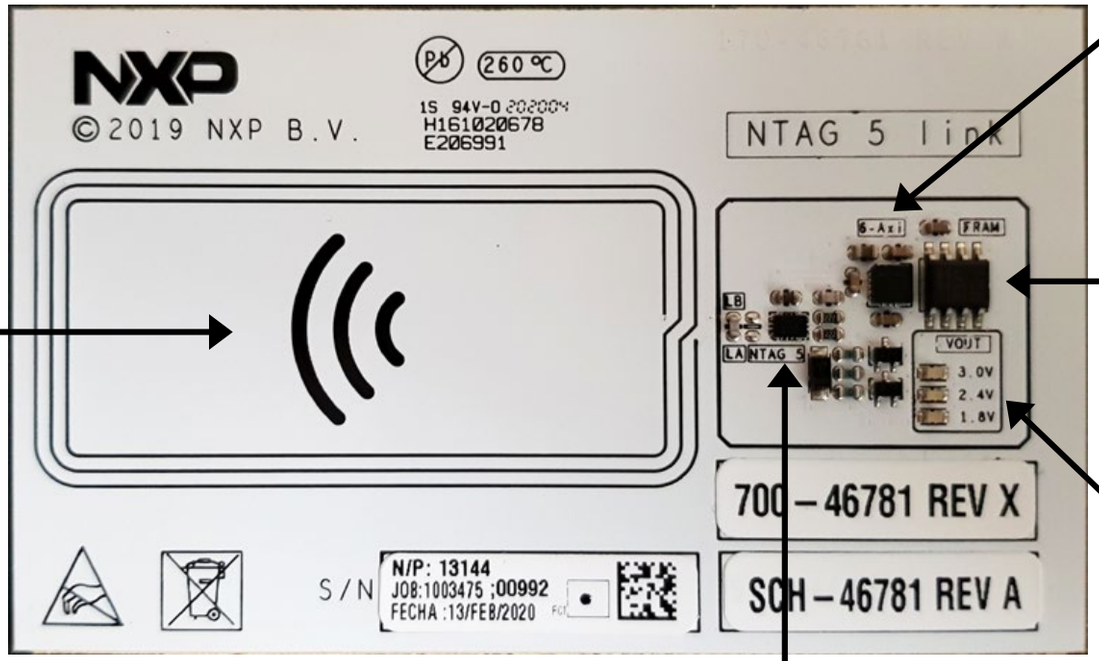
NTAG 5 switch NTP5210

Front side of NTAG 5 switch demo board

NTAG 5 switch board schematics



GET TO KNOW THE NTAG 5 link board



NFC Antenna 54x24 mm

I²C 6-axis sensor to show I²C master feature

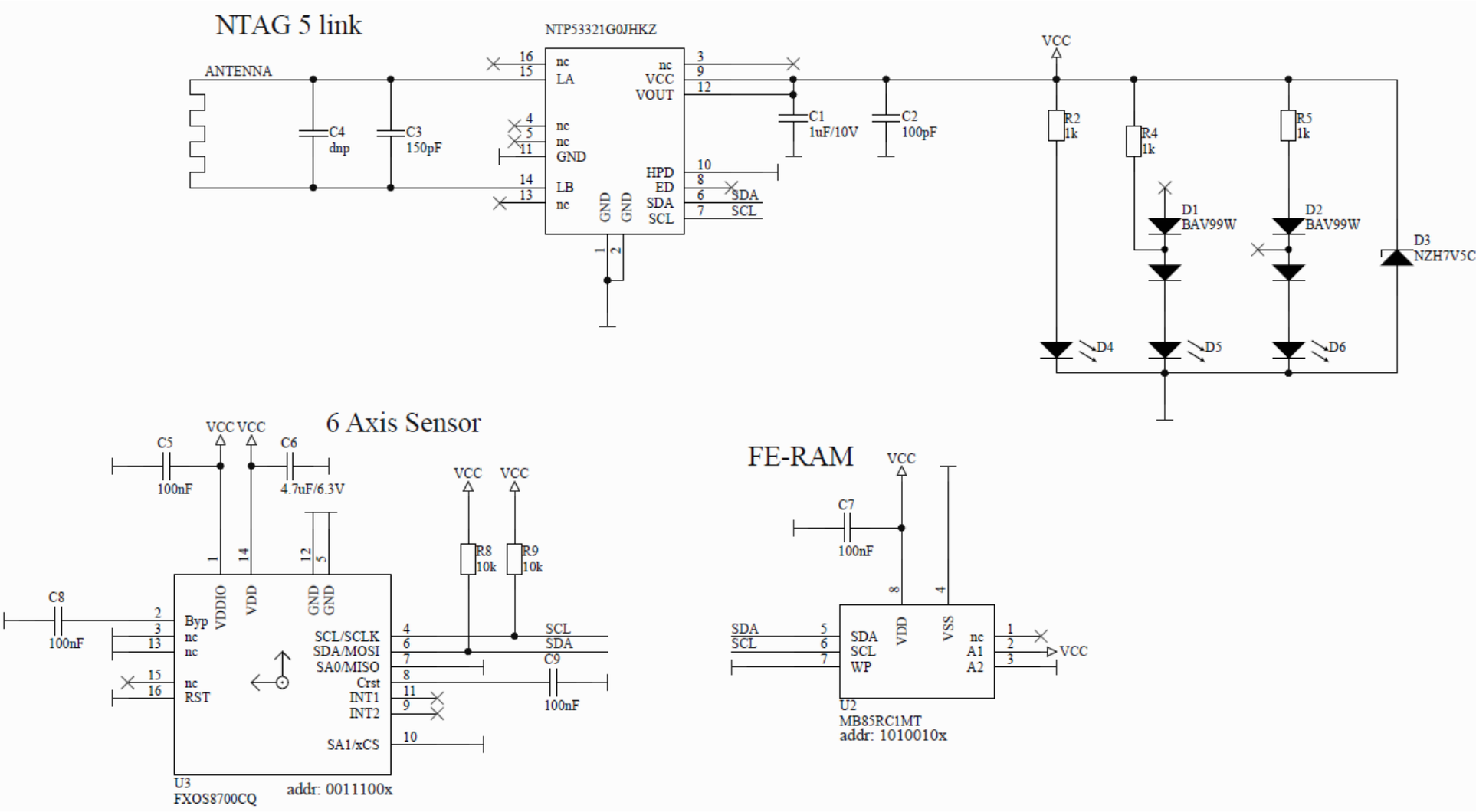
I²C FRAM to show easy memory extension

LEDs to show regulated energy harvesting

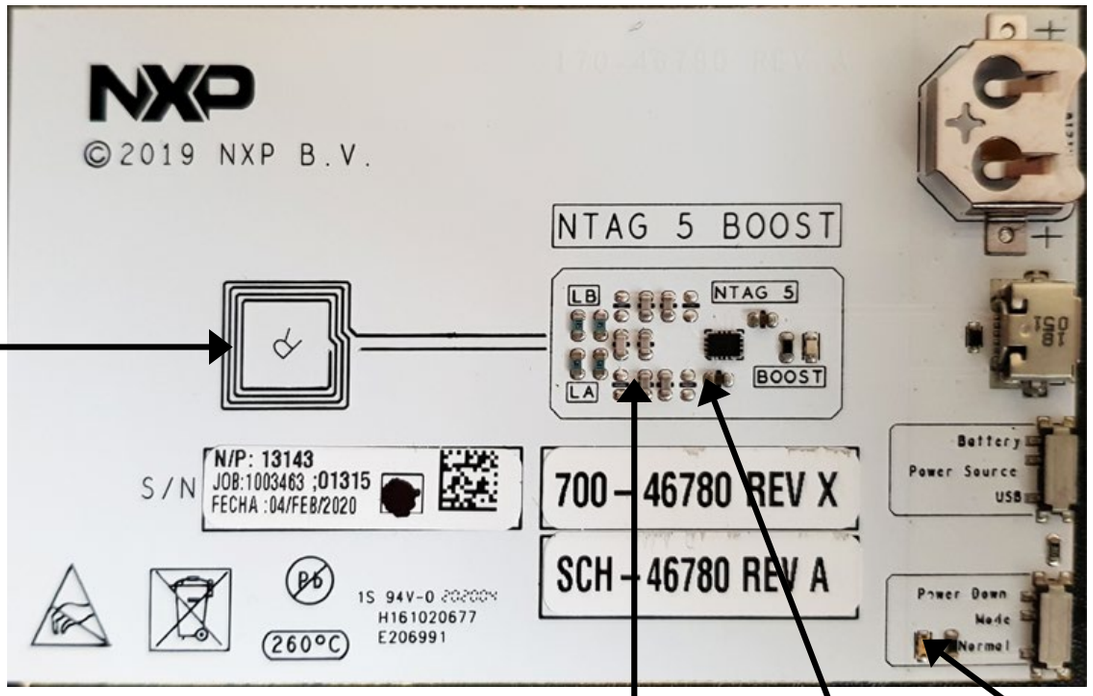
NTAG 5 link NTP5332

Front side of NTAG 5 link demo board

NTAG 5 link board schematics



GET TO KNOW THE NTAG 5 boost board



NFC Antenna 10x10 mm

Battery supply

USB supply

Select Battery or USB supply

Use hard power down to save energy

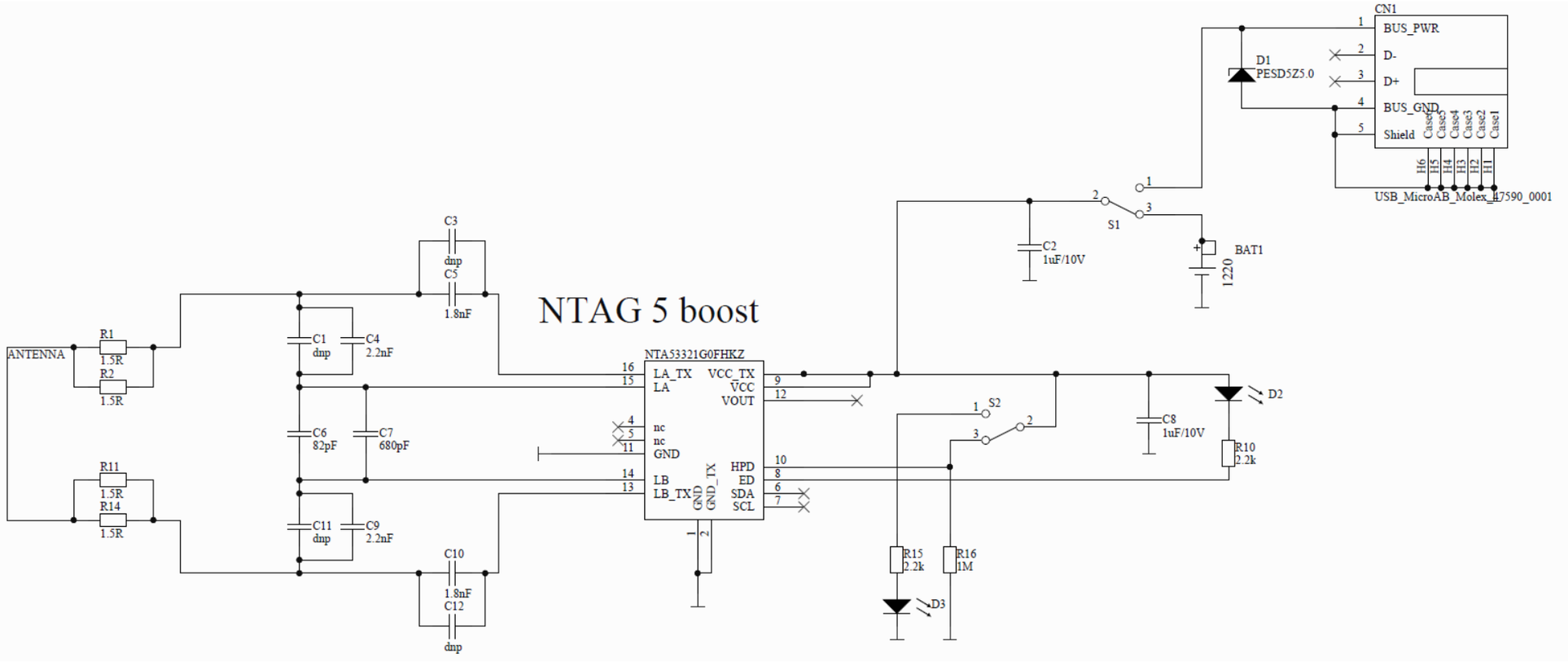
NTAG 5 boost NTA5332

LED to show received command

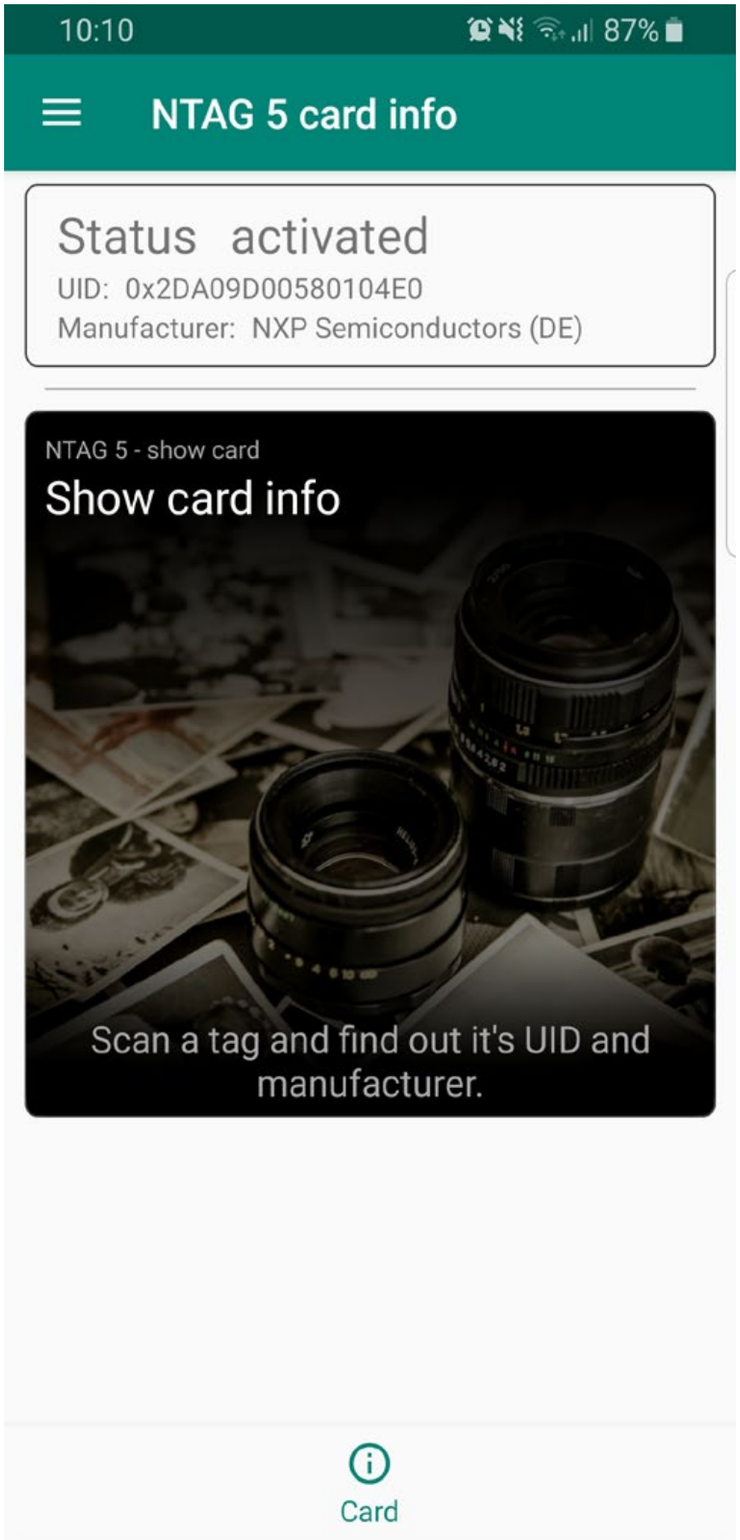
If LED is on, board is ready to use

Front side of NTAG 5 boost demo board

NTAG 5 boost board schematics

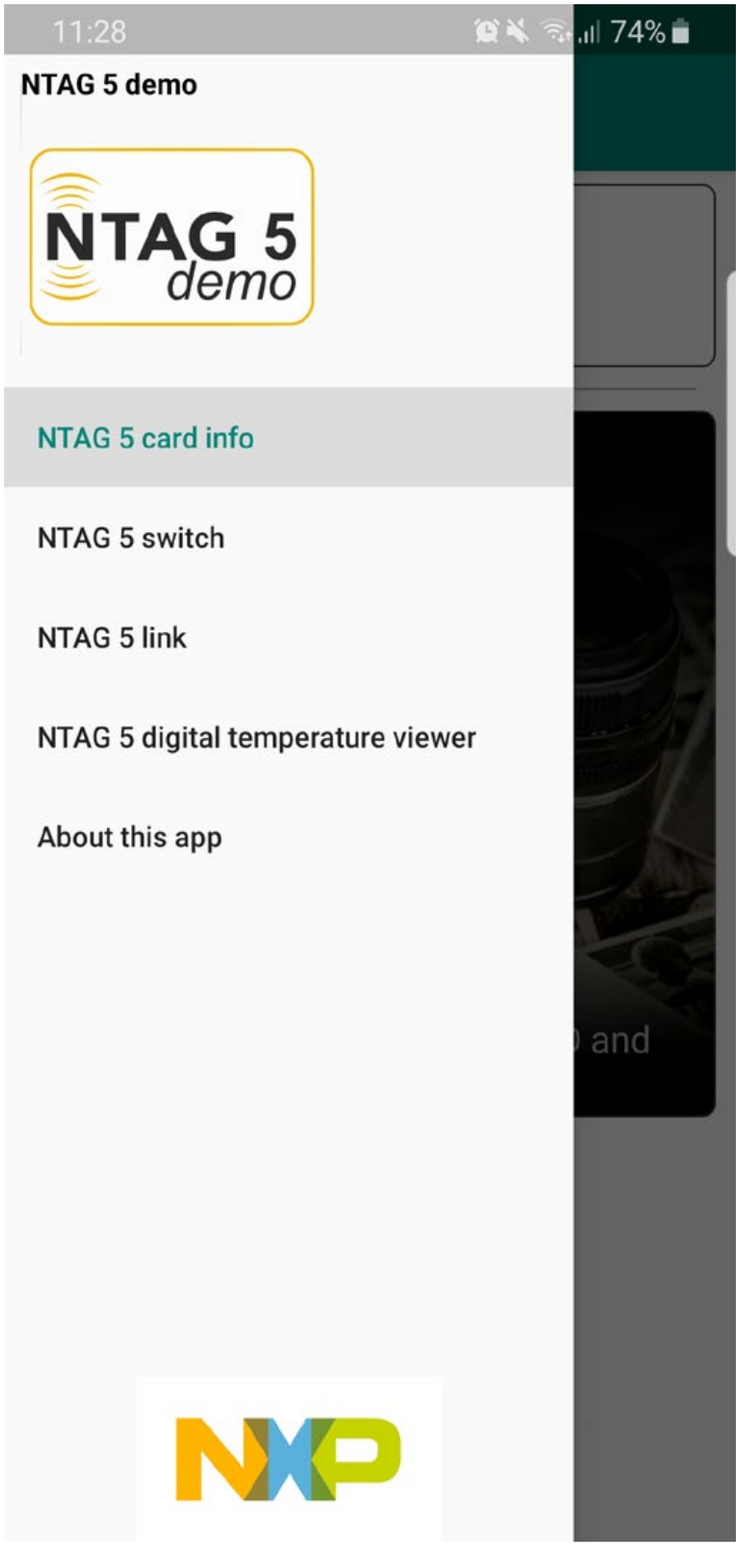


When no board is connected, status switches to “polling”

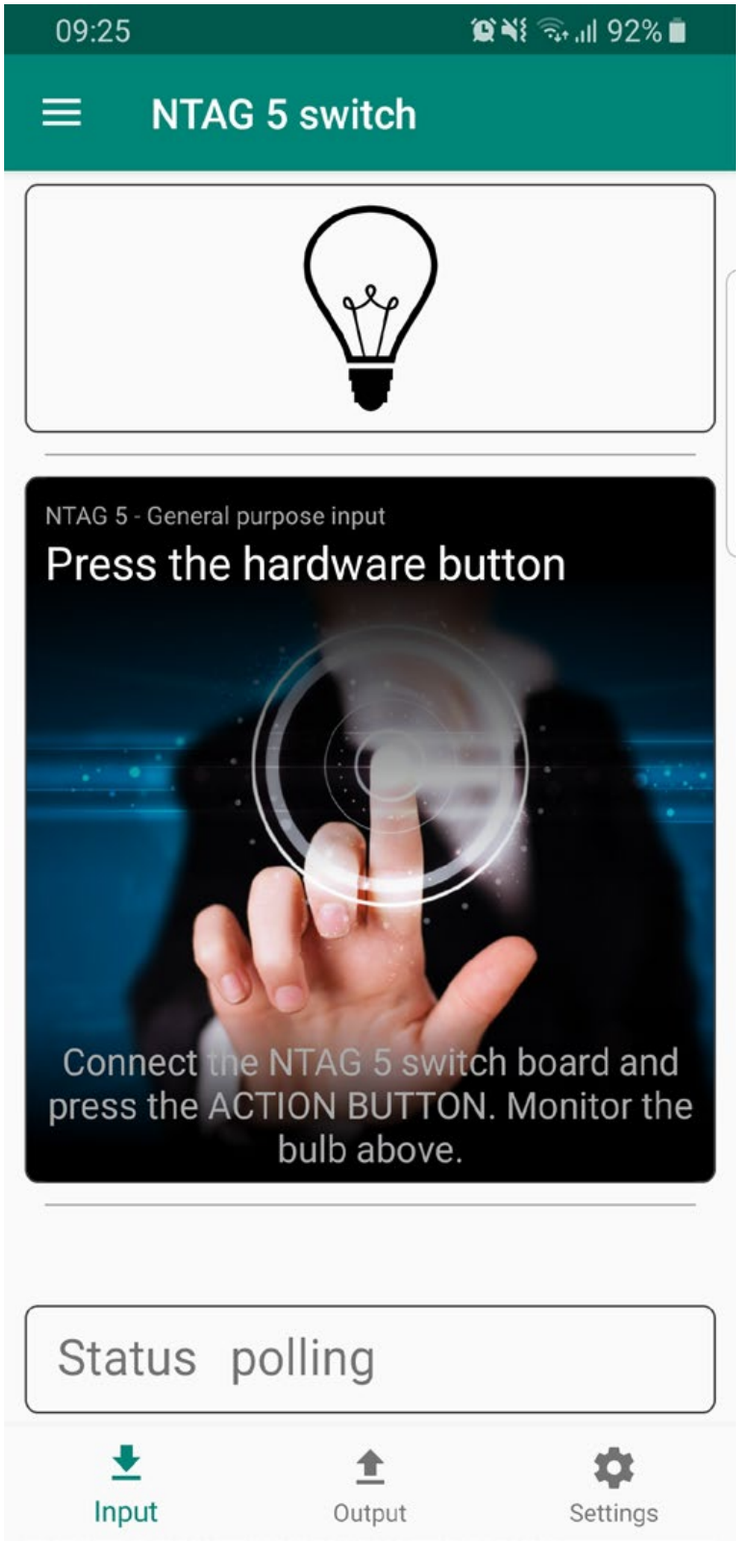


NTAG 5 show card tab

Use side menu to navigate



NTAG 5 demo navigation

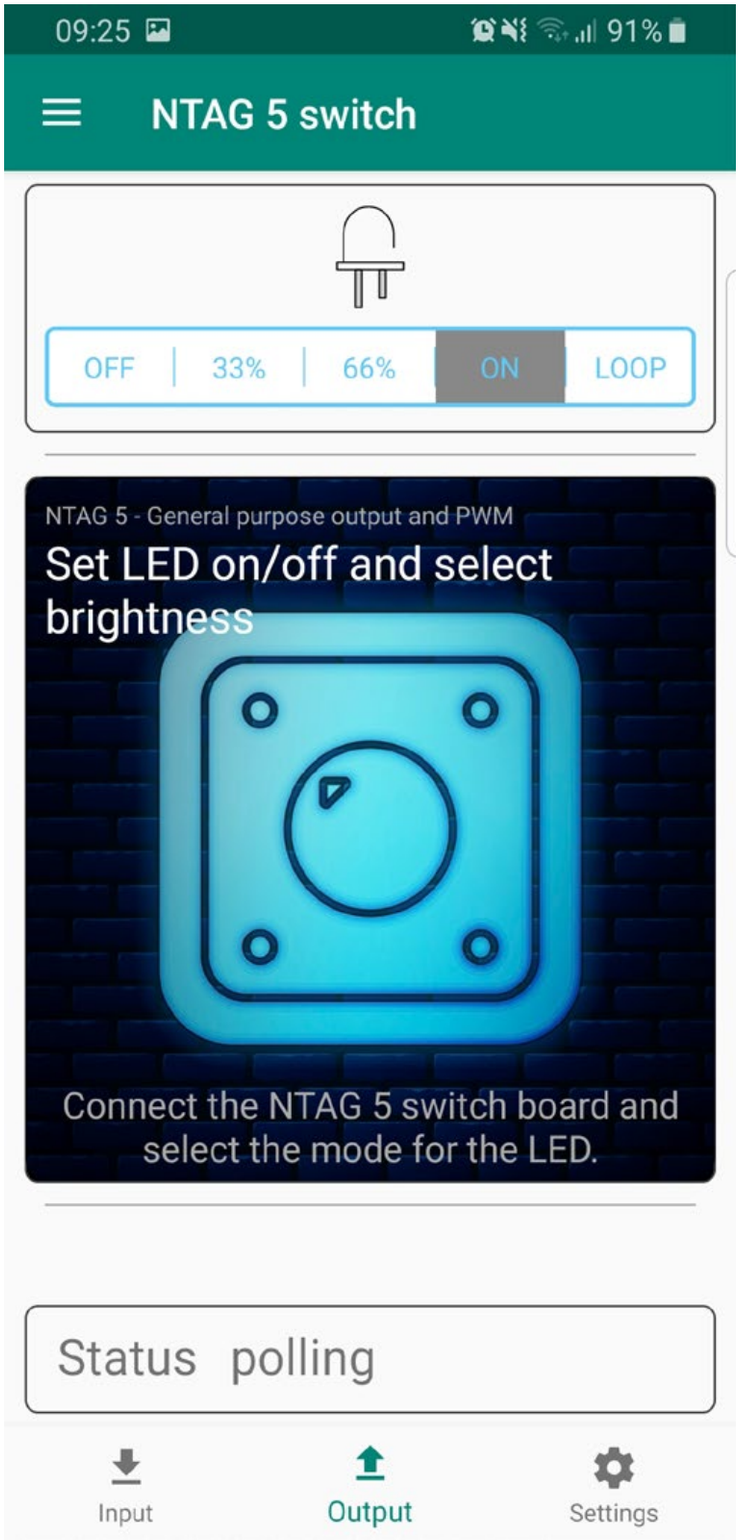


When button is pressed, bulb goes on

When board is connected, status switches to "activated"

Explore GPO and PWM

NTAG 5 switch general purpose input

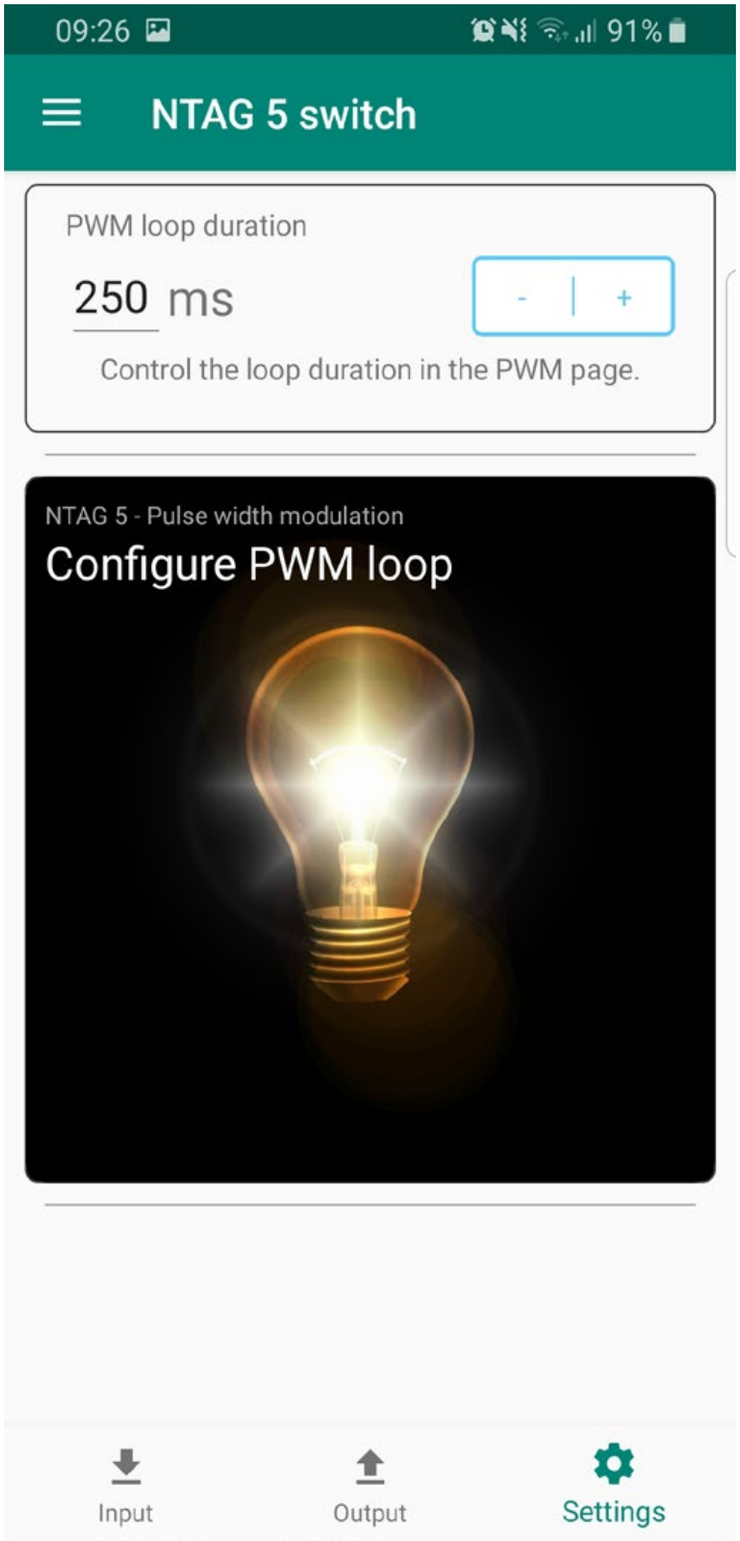


Chang settings of LED brightness

When board is connected, status switches to "activated"

Explore GPIO or change loop speed

NTAG 5 switch general purpose output and pulse width modulation

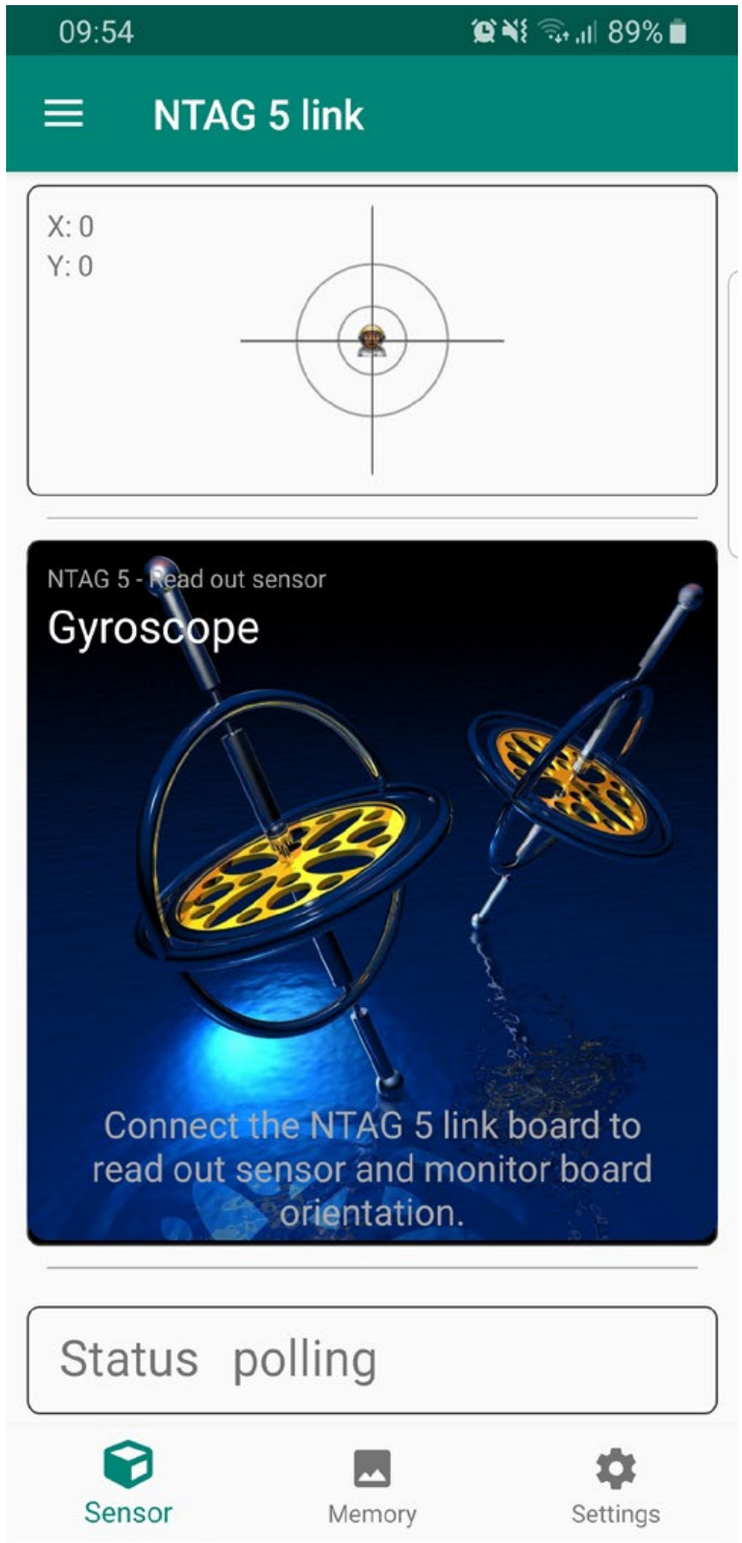


Configure how fast brightness changes

Explore GPIO and PWM features

NTAG 5 switch settings

X and Y orientation of 6 axis sensor

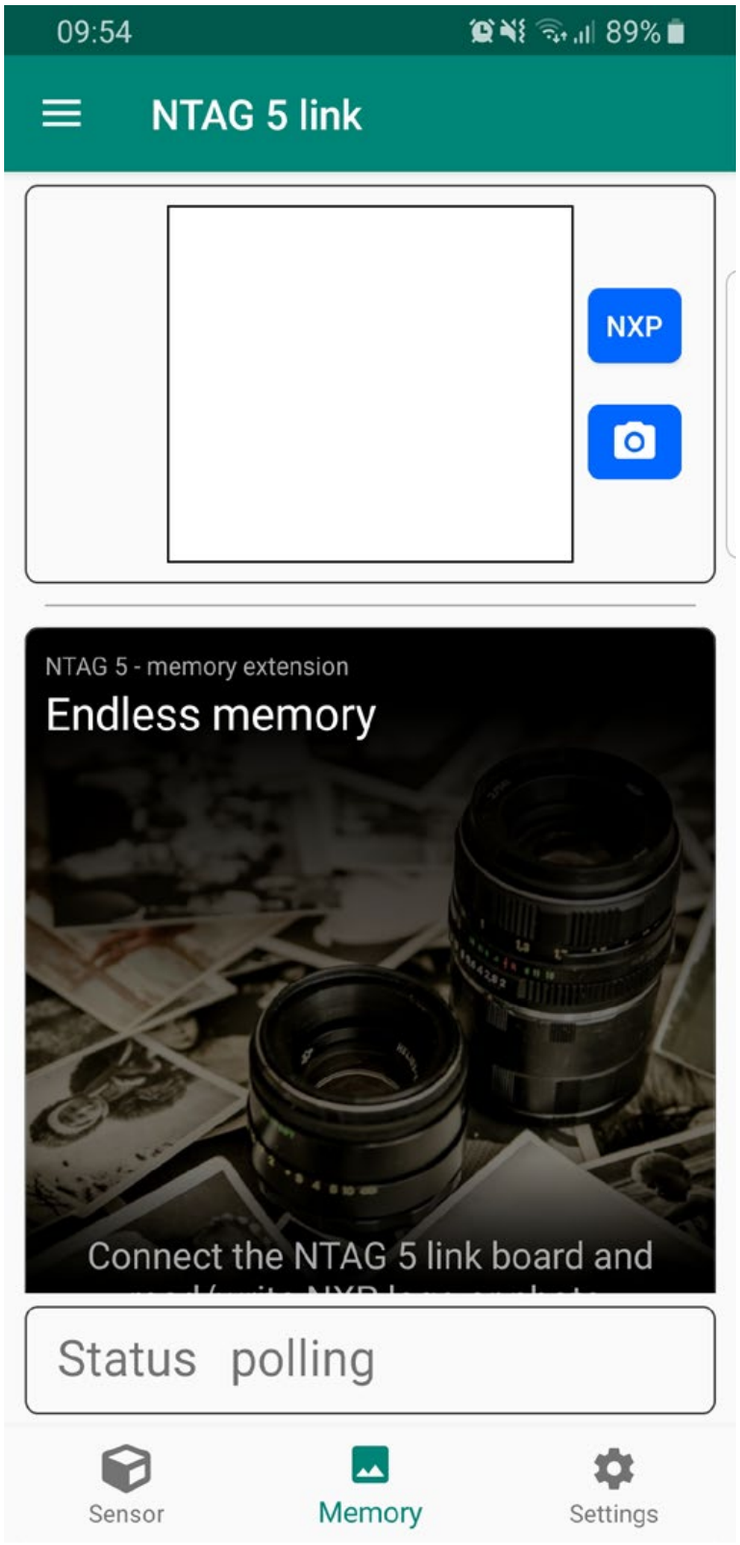


When board is connected, status switches to "activated"

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 Curios? Order our Development board

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

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