RGB LED

BUILT_IN LED	P0.13	LED_BUILTIN
Power	P1.09	LED_PWR

SCK	P0.13	D13~

+3V3

AREF

P0.04	A0
P0.05	A1
P0.30	A2
P0.29	A3

SDA	P0.31	A4
SCL	P0.02	A5

P0.28	A6
P0.03	A7

+5V

RESET

GND

VIN

~D12	P1.08	CIPO
~D11	P1.01	COPI
~D10	P1.02	
~D9	P0.27	
~D8	P0.21	
~D7	P0.23	
~D6	P1.14	
~D5	P1.13	
~D4	P1.15	
~D3	P1.12	
~D2	P1.11	

GND

RESET

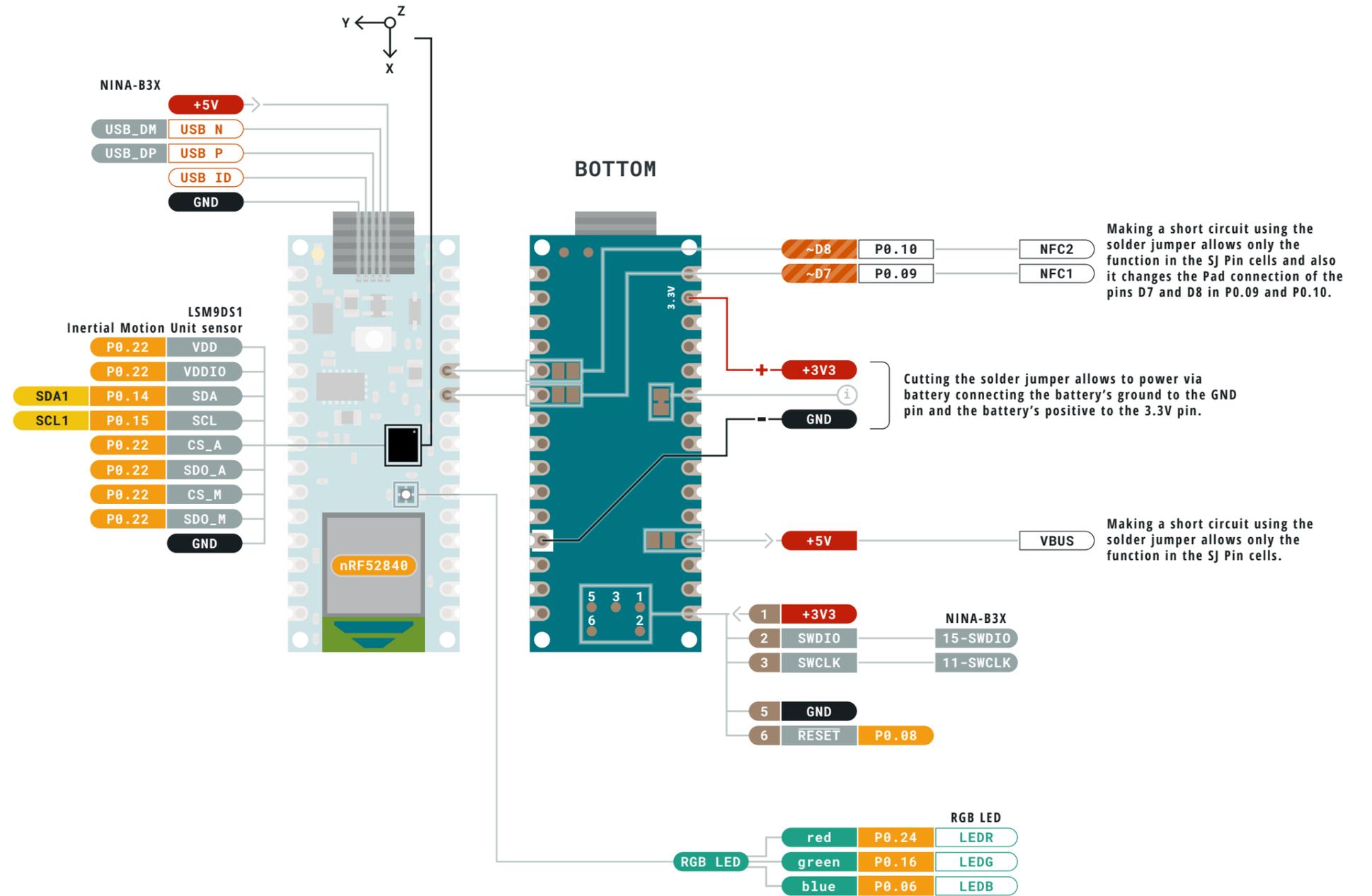| RX	P1.10
TX	P1.03

Last update: 3/11/2021

- Ground
- Power
- LED
- Internal Pin
- SWD Pin

- Digital Pin
- Analog Pin
- Other Pin
- Microcontroller's Port
- Default

⚠ **MAXIMUM** ouput current per pin is 15mA

⚠ **MAXIMUM** input current per pin is 5mA

⚠ **MAXIMUM** external current is 25mA for the sum of all GPIO currents and the current being drawn from VDD

VIN 5-21 V input to the board.

NOTE: CIPO/COPI have previously been referred to as MISO/MOSI

ARDUINO

Z
Y ← ⊙
↓
X

NINA-B3X

+5V

USB_DM	USB N
USB_DP	USB P
	USB ID
GND	

BOTTOM

| ~D8 | P0.10 | NFC2 |
| ~D7 | P0.09 | NFC1 |

Making a short circuit using the solder jumper allows only the function in the SJ Pin cells and also it changes the Pad connection of the pins D7 and D8 in P0.09 and P0.10.

LSM9DS1
Inertial Motion Unit sensor

	P0.22	VDD
	P0.22	VDDIO
SDA1	P0.14	SDA
SCL1	P0.15	SCL
	P0.22	CS_A
	P0.22	SDO_A
	P0.22	CS_M
	P0.22	SDO_M
	GND	

| | +3V3 |

Cutting the solder jumper allows to power via battery connecting the battery's ground to the GND pin and the battery's positive to the 3.3V pin.

| | GND |

nRF52840

| +5V | VBUS |

Making a short circuit using the solder jumper allows only the function in the SJ Pin cells.

5 3 1
6 2

1	+3V3
2	SWDIO	15-SWDIO
3	SWCLK	11-SWCLK

NINA-B3X

| 5 | GND |
| 6 | RESET | P0.08 |

RGB LED

red	P0.24	LEDR
RGB LED	green	P0.16	LEDG
	blue	P0.06	LEDB

■ Ground

■ Power

■ LED

■ Internal Pin

■ SWD Pin

▨ Digital Pin

▢ Analog Pin

▢ Other Pin

■ Microcontroller's Port

■ Default

☐ **SJ Pin**
Making a short circuit using the solder jumper allows only the function in the SJ Pin cells.

⚠ **MAXIMUM** ouput current per pin is 15mA

⚠ **MAXIMUM** input current per pin is 5mA

⚠ **MAXIMUM** external current is 25mA for the sum of all GPIO currents and the current being drawn from VDD

VIN 5-21 V input to the board.

NOTE: CIPO/COPI have previously been referred to as MISO/MOSI