ARDUINO

RGB LED

| BUILT_IN LED | P0.13 | LED_BUILTIN |
| Power | P1.09 | LED_PWR |

SCK	P0.13	D13~		~D12	P1.08	CIPO
		+3V3		~D11	P1.01	COPI
		AREF		~D10	P1.02	
P0.04	A0		~D9	P0.27	
P0.05	A1		~D8	P0.21	
P0.30	A2		~D7	P0.23	
P0.29	A3		~D6	P1.14	
SDA	P0.31	A4		~D5	P1.13	
SCL	P0.02	A5		~D4	P1.15	
P0.28	A6		~D3	P1.12	
P0.03	A7		~D2	P1.11	
		+5V		GND		
		RESET		RESET		
		GND		RX	P1.10	
		VIN		TX	P1.03	

ARDUINO.CC

Ground	Digital Pin
Power	Analog Pin
LED	Other Pin
Internal Pin	Microcontroller's Port
SWD Pin	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.

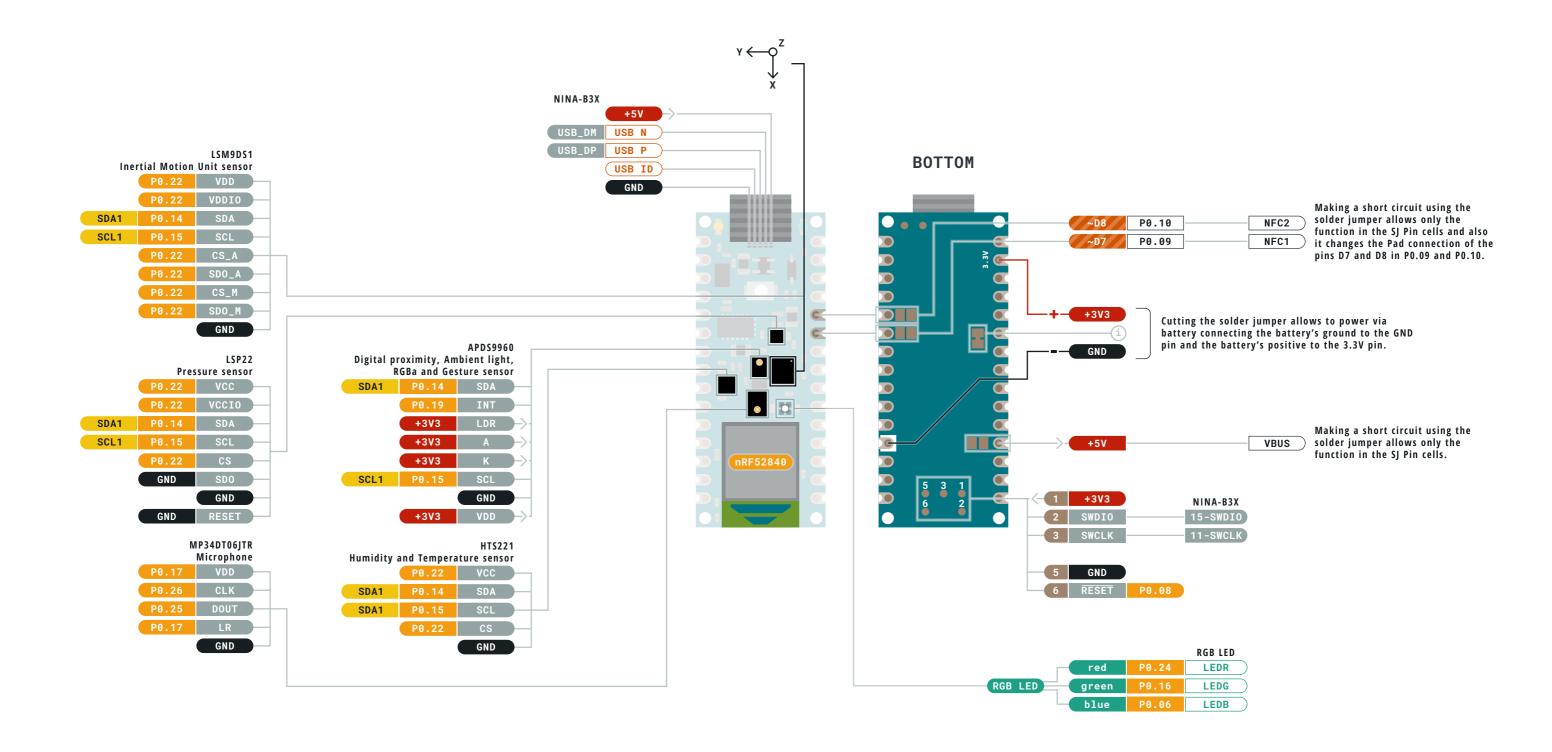NOTE: CIPO/COPI have previously been referred to as MISO/MOSI

NINA-B3X

		+5V
USB_DM	USB N	
USB_DP	USB P	
	USB ID	
	GND	

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

LSP22
Pressure sensor

	P0.22	VCC
	P0.22	VCCIO
SDA1	P0.14	SDA
SCL1	P0.15	SCL
	P0.22	CS
	GND	SDO
		GND
	GND	RESET

APDS9960
Digital proximity, Ambient light, RGBa and Gesture sensor

SDA1	P0.14	SDA
	P0.19	INT
	+3V3	LDR
	+3V3	A
	+3V3	K
SCL1	P0.15	SCL
		GND
	+3V3	VDD

MP34DT06JTR
Microphone

	P0.17	VDD
	P0.26	CLK
	P0.25	DOUT
	P0.17	LR
		GND

HTS221
Humidity and Temperature sensor

	P0.22	VCC
SDA1	P0.14	SDA
SDA1	P0.15	SCL
	P0.22	CS
		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.

+ - **+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

+5V — **VBUS**

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

1	+3V3	
2	SWDIO	15-SWDIO
3	SWCLK	11-SWCLK
5	GND	
6	RESET	P0.08

NINA-B3X

RGB LED

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

Legend

■ Ground	▨ Digital Pin	☐ SJ Pin	
■ Power	▨ Analog Pin		
■ LED	☐ Other Pin		
■ Internal Pin	▨ Microcontroller's Port		
■ SWD Pin	▨ Default		

SJ Pin
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