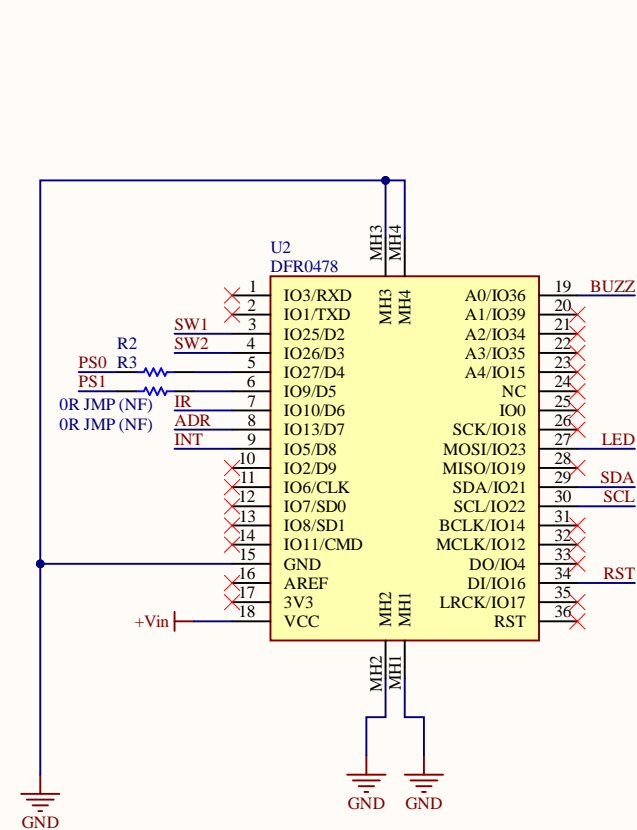


IMU Module

FireBeetle Wi-Fi / Bluetooth ESP8266/ESP32



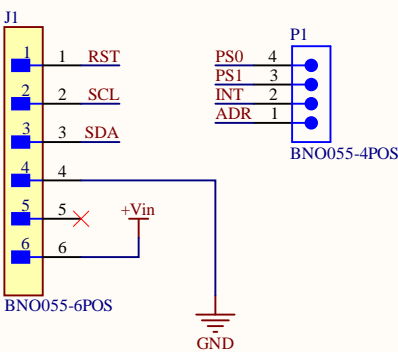
PS0, PS1 to remain floating
If needed, solder R2, R3 SMT jumpers

Mounting Holes Grounded

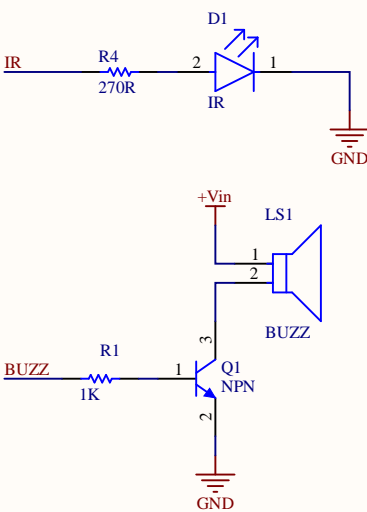
Board powered by +5 VDC USB Input
or +3.7 VDC Li-Po battery

Charging via USB automatically handled

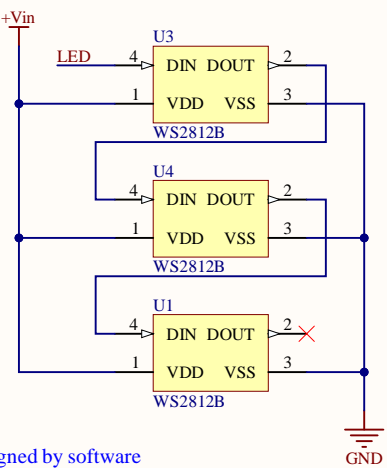
BNO055 9 Axis Abs.



IR Diode* / Buzzer*

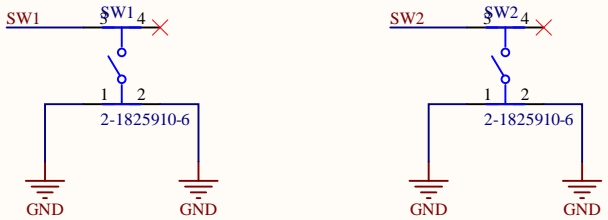


3X Intelligent Status LED (WS2812B)



Detailed use to be designed by software

2X Data Label Tactile Switch



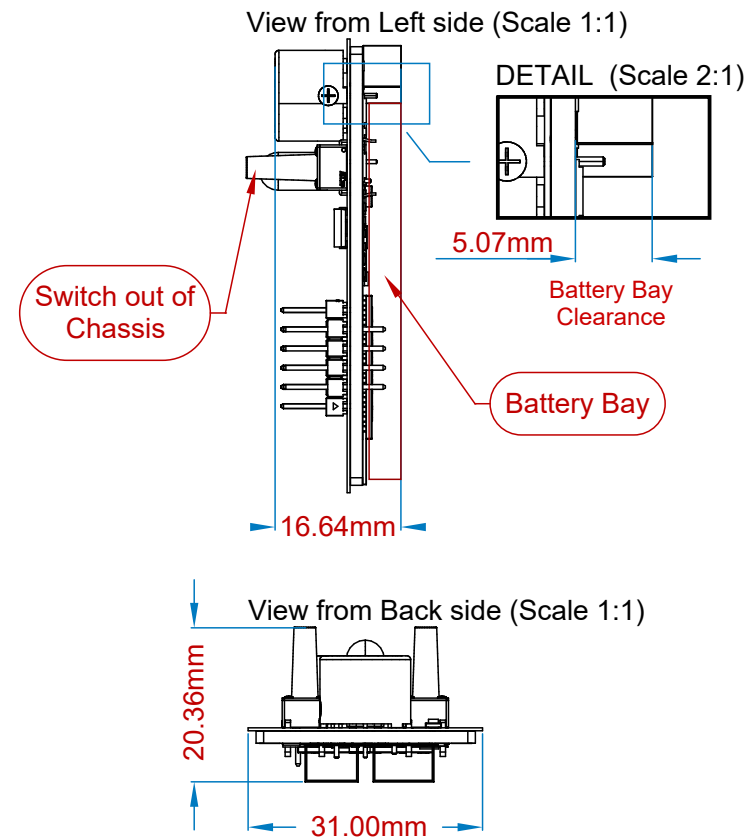
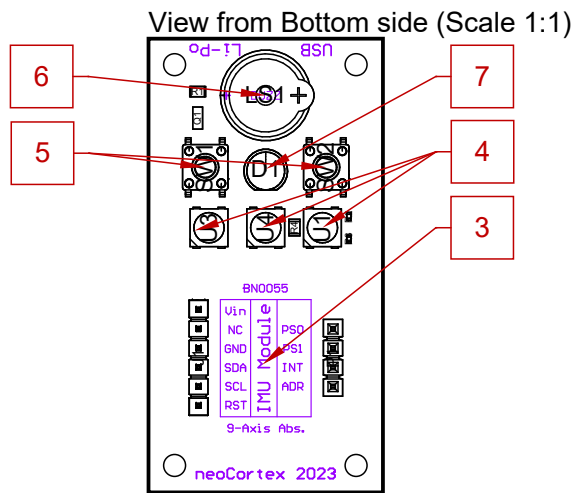
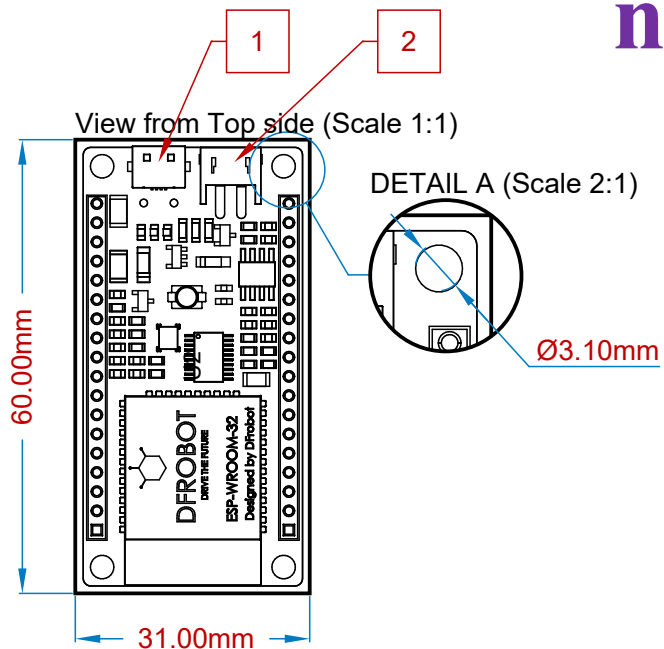
neoCortex 2023

Title <i>IMU Module</i>		
Size A4	Number 1 out of 1	Revision 1.0
Date: 1/07/2023	Sheet of	
File: C:\Users\...\IMU.SchDoc	Drawn By: <i>Michal Makowka</i>	

* Optional

IMU MODULE

neoCortex 2023



Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
Top Overlay	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
		0.32mm	FR-4	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
Bottom Overlay	Bottom Overlay			Legend	GBO
Total thickness: 0.41mm					

Notes:

- 1 USB (Power/Charge/Data INOUT)
- 2 Li-Po Battery 3.7 VDC IN
- 3 BNO055 9-Axis Abs. Sensor Module
- 4 Status RGB LED (WS2812B)
- 5 Data Label Tactile Switch
- 6 Optional Piezoelectric Buzzer
- 7 Optional IR LED for Motion Tracking

