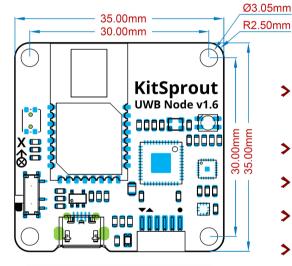
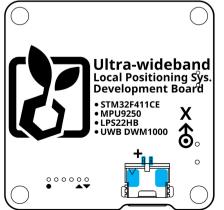


## KitSprout UWBNode

2017.08.01 Ver. v1.6C Lib. v3.2

**INDEX PAGE COVER PAGE BLOCK DIAGRAM POWER MICROCONTROLLER INERTIAL SENSOR ULTRA WIDEBAND** 10





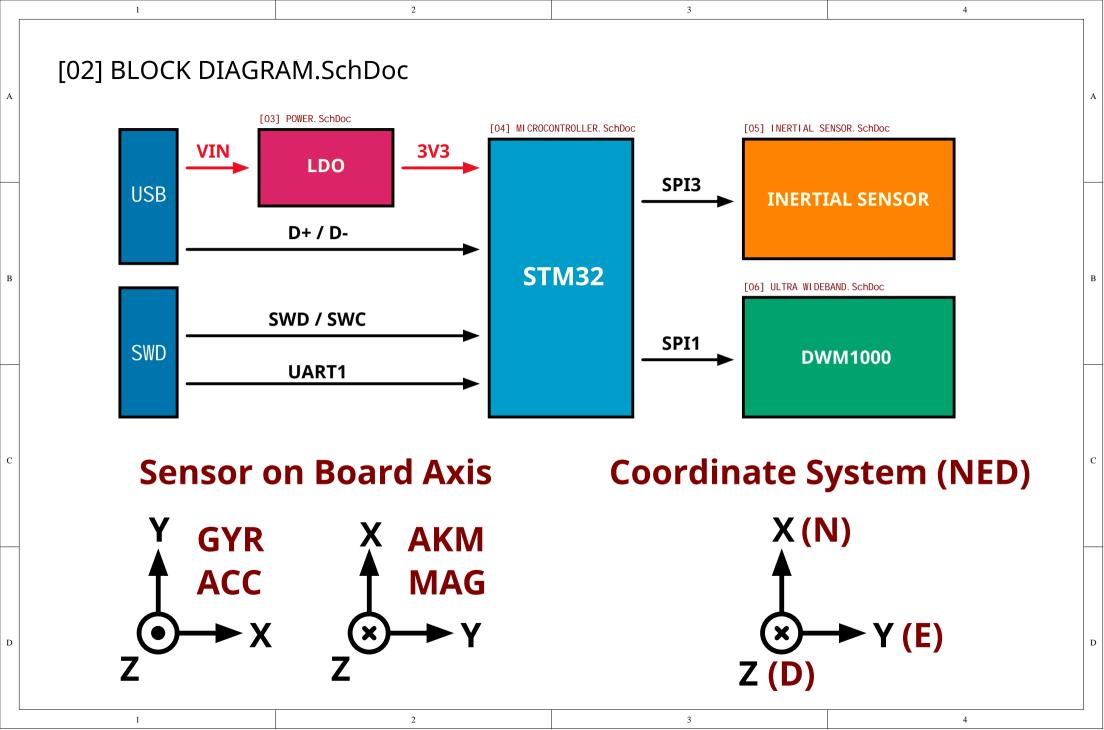
- > STM32F411CE CORTEX-M4F 100MHz
- > RGB LED (LOW ON)
- > KEY (LOW ON)
- > MI CRO USB
- > SWD (WITH UART)
- > MPU9250 (SPI)
  3-AXIS GYR/ACC/MAG
- > LPS22HB (SPI)
  BAROMETER/THERMOMETER
- > DWM1000 (SPI)
  ULTRA-WIDEBAND MODULE

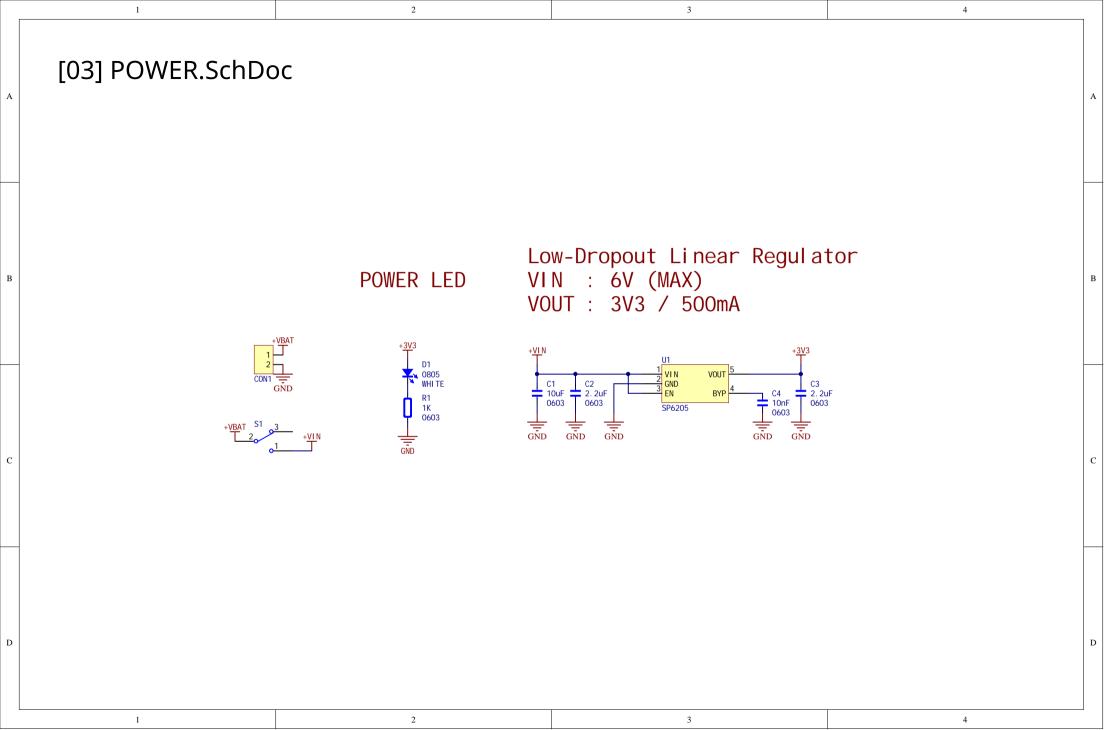
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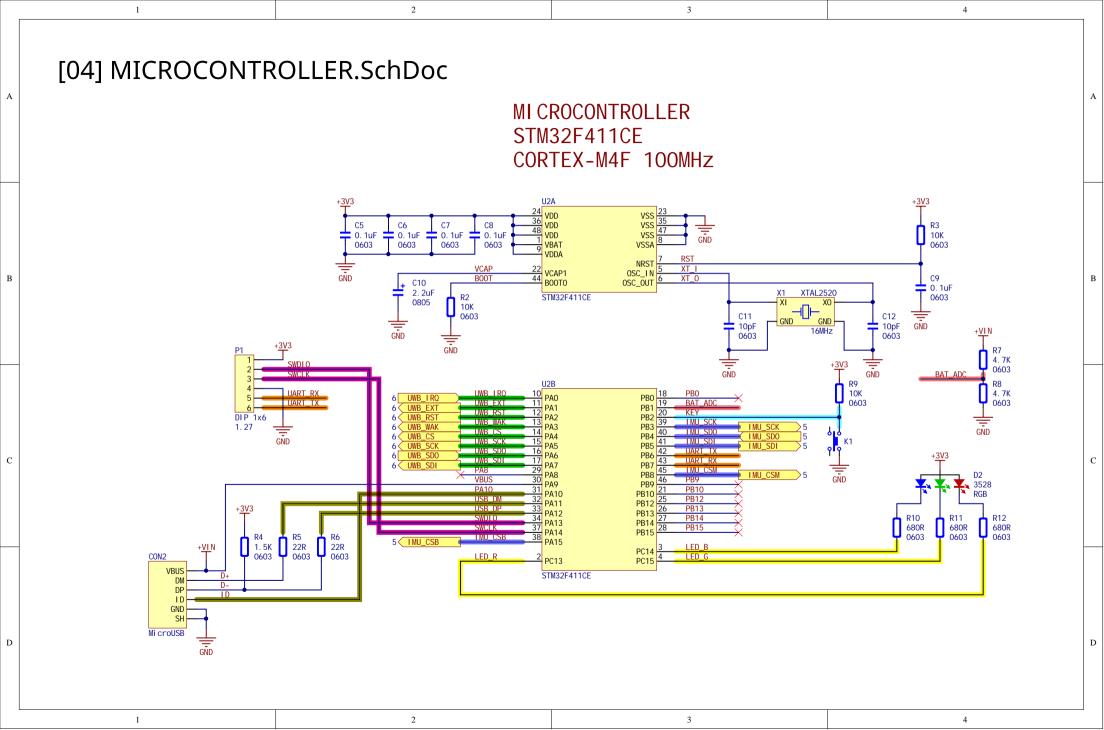
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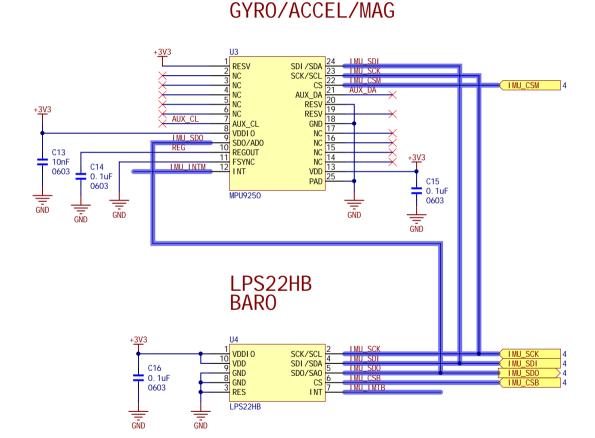
3

4









MPU9250

- Gyroscope (MPU6500) ±250/500/1000/2000 dps
- Accelerometer (MPU6500)±2/4/8/16 q

Device ID = 
$$0x71$$
  
I2C Address =  $0xD0$  (AD0 = 0)  
=  $0xD2$  (AD0 = 1)

Magnetometer (AK8963)±4800 uT

Device ID = 0x48I2C Address = 0x0C

· Barometer (LPS22HB) 260-1260 hPa

Device ID = 
$$0xB1$$
  
I2C Address =  $0xB8$  (SAO = 0)  
=  $0xBA$  (SAO = 1)

В

С

D

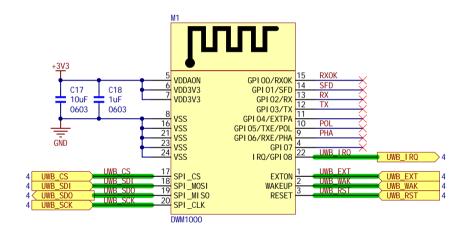
3

4

2 3 4

## [06] ULTRA WIDEBAND.SchDoc

## DWM1000 ULTRA-WI DEBAND



-	P0L	PHA	SPI MODI	E
	0	0	0	defaul t
	0	1	1	•
	1	0	2	
	1	1	3	

MODE 0
Data is sampled on the rising (first) edge of the clock and launched on the falling

D

2

3