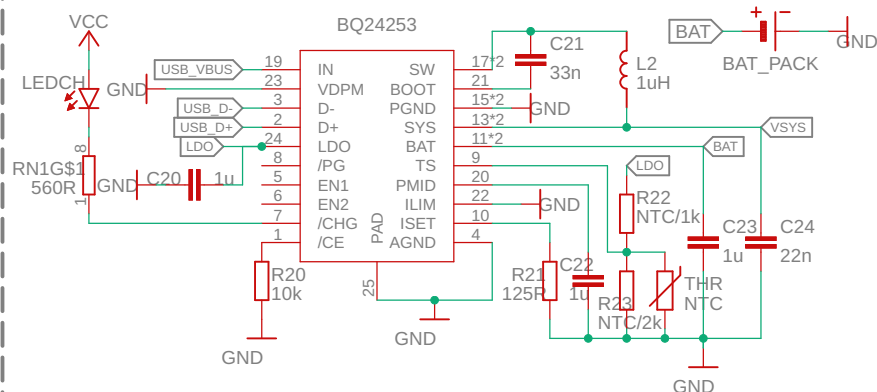
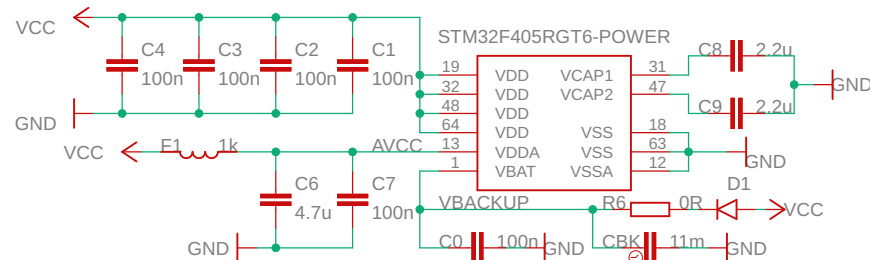
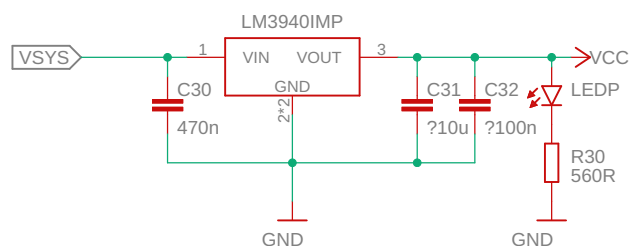


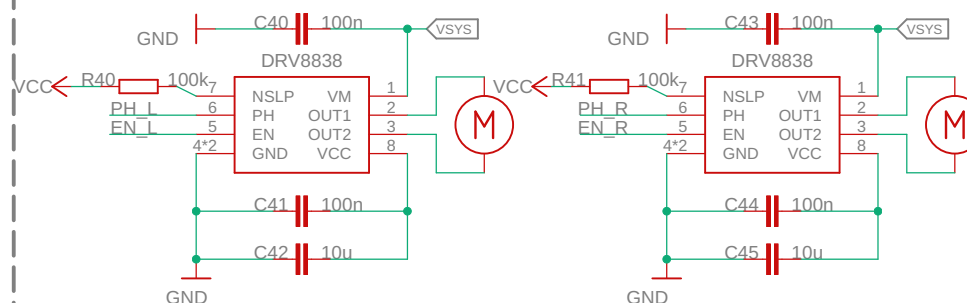
[2]

 $[\emptyset]$ 

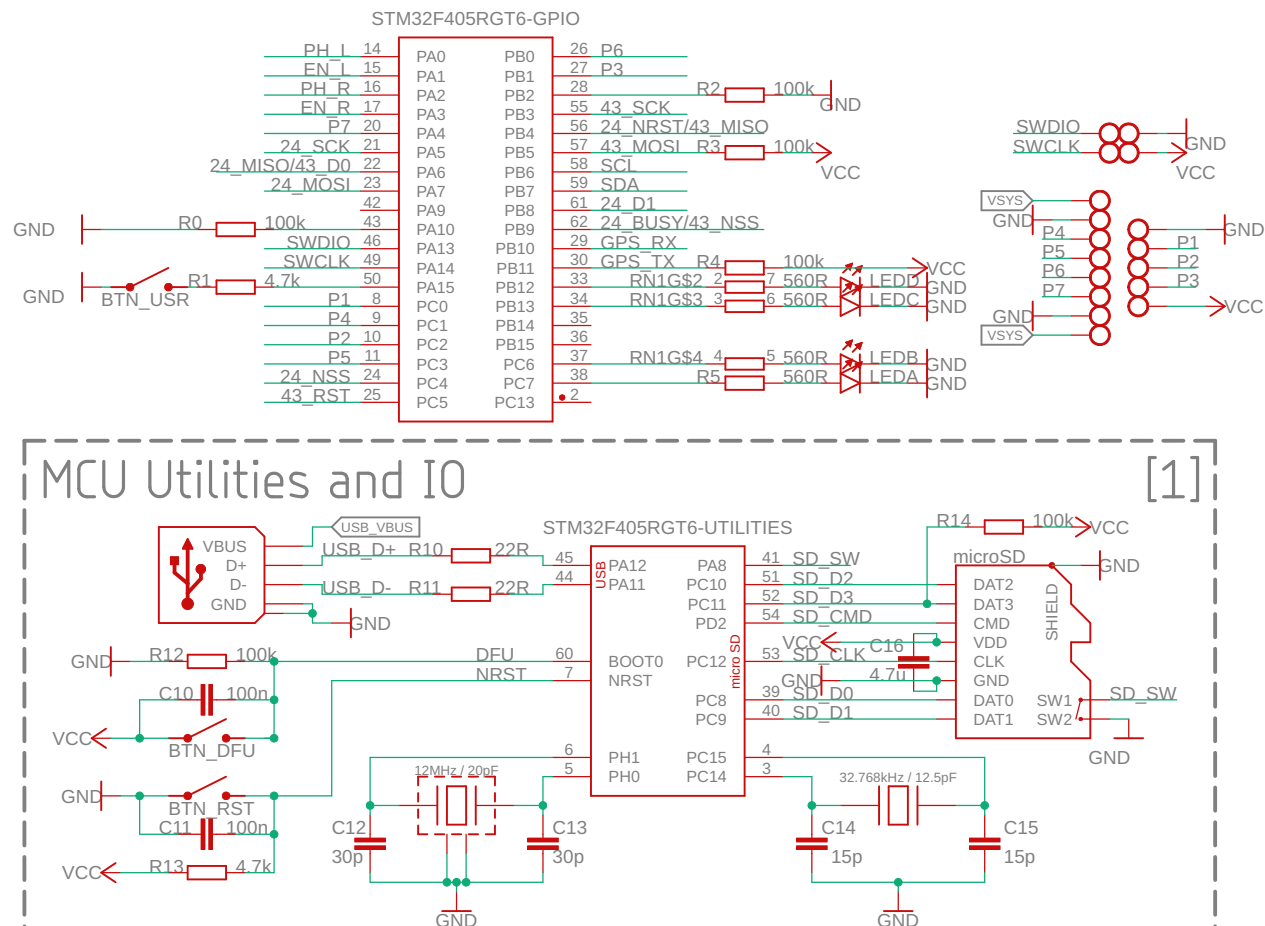
[3]



[4]

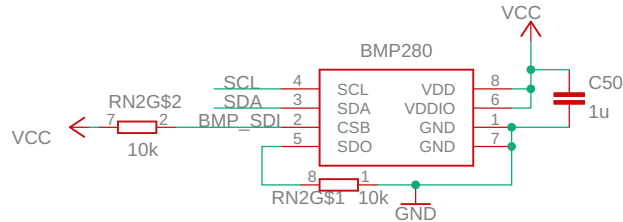


[1]

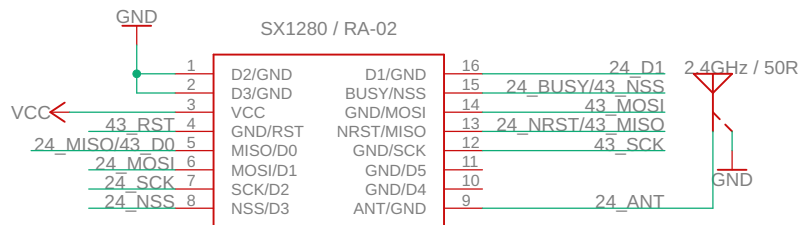
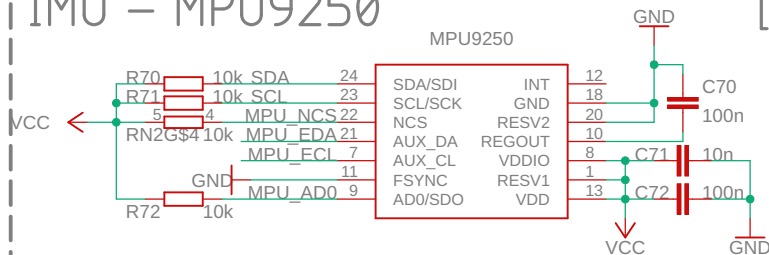


- > PC11, PA10, PB5, PB11 need stable levels during DFU
- > PB2 must be low during boot
- > MCU works ONLY in slave USB configuration
- > Pins SD\_SW, BTN\_USR, LED differ from PYBV11 configuration

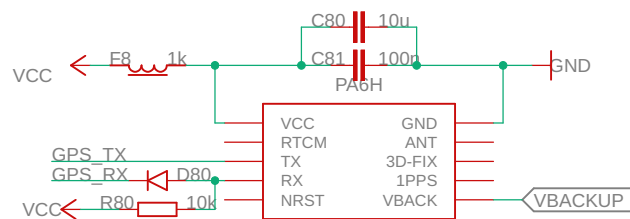
Pressure sensor – BMP280 [5]



## Radio – SX1280 or SX1278 [6]

IMU – MPU9250 GND [7]

## GPS – PA6H (MT3339) [8]



### BOM by part

<b>MCU ID: 0</b>				<b>LDO ID: 4</b>			
C0	100n	R0	100k	C30	470n	R30	560R
C1	100n	R1	4.7k	C31	??10u		
C2	100n	R2	100k	C32	??100n		
C3	100n	R3	100k	<b>MOT ID: 4</b>			
C4	100n	R4	100k	C40	100n	R40	100k
C6	4.7u	R5	560R	C41	100n	R41	100k
C7	100n	R6	0R	C42	10u		
C8	2.2u	F1	1k	C43	100n		
C9	2.2u			C44	100n		
<b>UTL ID: 1</b>				C45	10u		
C10	100n	R10	22R	<b>BMP ID: 5</b>			
C11	100n	R11	22R	C50	1u		
C12	30p	R12	100k	<b>IMU ID: 6</b>			
C13	30p	R13	4.7k	C70	100n	R70	10k
C14	15p	R14	100k	C71	10n	R71	10k
C15	15p			C72	100n	R72	10k
C16	4.7u			<b>GPS ID: 7</b>			
<b>CHR ID: 2</b>				C80	10u	R80	10k
C20	1u	R20	10k	C81	100n	F8	1k
C21	33n	R21	125R	<b>Other</b>			
C22	1u	R22	N/1k				
C23	1u	R23	N/2k			RN1	560R
C24	22n	L2	1uH			RN2	10k

### BOM by value

Cap		Res	
15p	2 C14, C15	0R	1 R6
30p	2 C12, C13	22R	2 R10, R11
10n	1 C71	125R	1 R21
22n	1 C24	560R	2 R5, R30
33n	1 C21	N/1k	1 R22
100n	16 C0, C1, C2, C3, C4, C7, C10, C11, C32, C40, C41, C43, C44, C70, C72, C81	N/2k	1 R23
470n	1 C30	4.7k	2 R1, R13
1u	3 C20, C22, C50	10k	5 R20, R70, R71, R72, R80
1u	1 C23 (1206)	100k	8 R0, R2, R3, R4, R12, R14, R40, R41
2.2u	2 C8, C9	<b>Oth</b>	
4.7u	2 C6, C16	1uH	1 L2
10u	4 C31, C42, C45, C80	-i>	2 D1, D80
		LED	6 A, B, C, D, P, CH,

