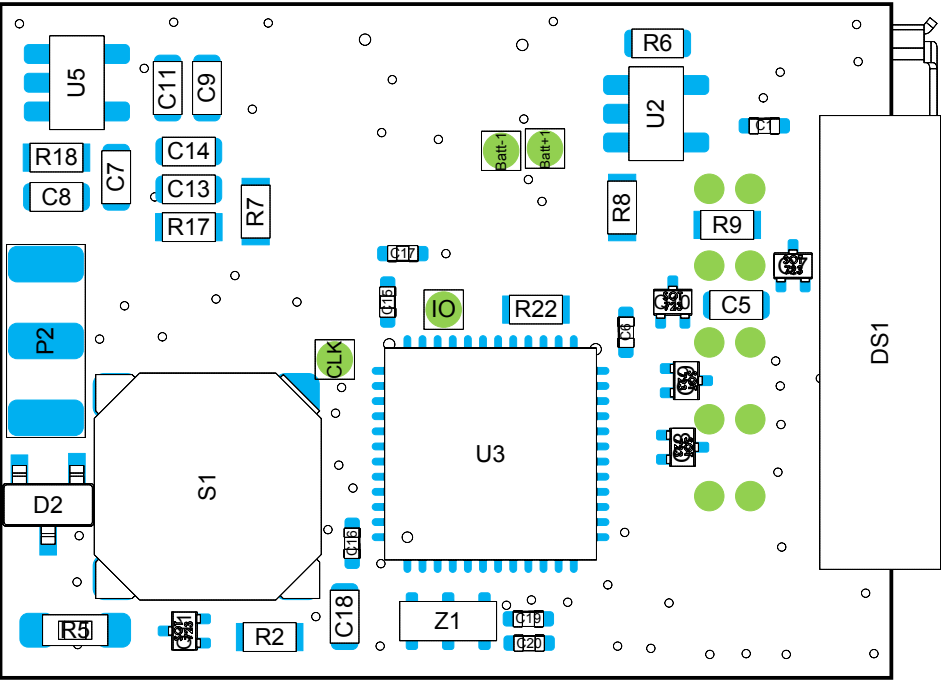
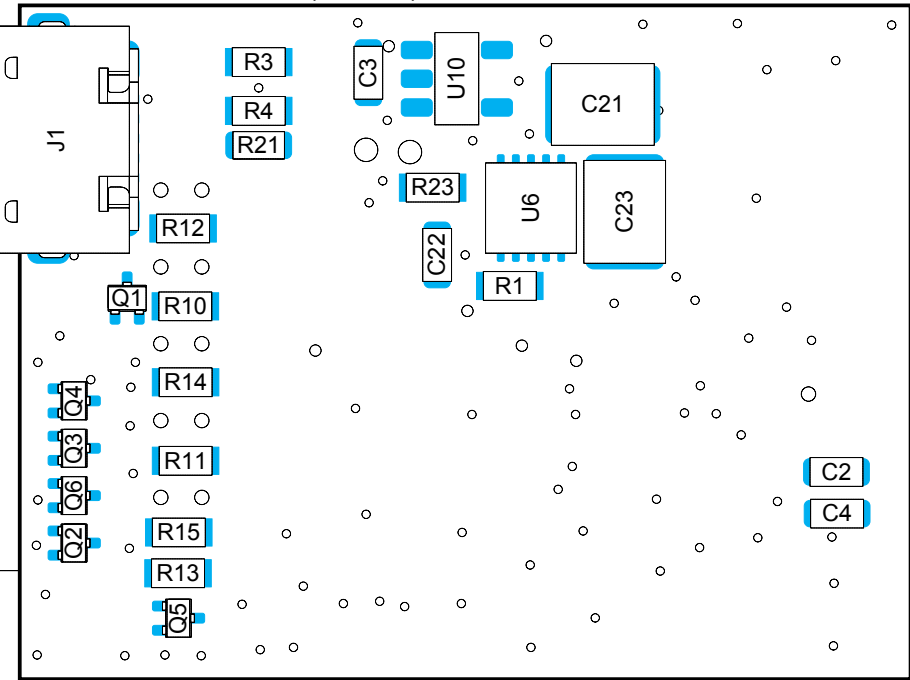


View from Top side (Scale 4)



View from Bottom side (Scale 4)



Bill Of Materials

Item	Designator	Comment	Quantity
1	Batt+1, Batt-1, Key, CLK, IO		5
2	C1, C19	1uF	2
3	C5, C11, C14, C18, C22, C23	10uF	6
4	C2	10u	1
5	C21	4.7uF	1
6	C3, C4, C6, C7, C15-C17, C20	100nF	8
7	C8	470pF	1
8	C9, C13	10nF	2
9	D2	BAR43C	1
10	DS1	FYT-2531BUHR-12_1	1
11	J1	Micro-USB	1
12	P2	Header 3X2	1
13	Q1-Q7, Q11	RUM002N05T2L	8
14	Q8-Q10	RZM002P02T2L	3
15	R1	30.1k	1
16	R17	3.92K	1
17	R2, R8, R18, R22	10k	4
18	R21	6R	1
19	R23	0R	1
20	R3, R4	22R	2
21	R5	20R	1
22	R6	30.1K	1
23	R7	12R	1
24	R9-R15	270R	7
25	S1	CMT-7525S-SMT	1
26	U10	TPS78330DDCR	1
27	U2	MCP73831T-2ACI/OT	1
28	U3	STM32L152CBU6	1
29	U5	LMV7239M5	1
30	U6	LT3045EDD	1
31	Z1	8MHZ_cap	1