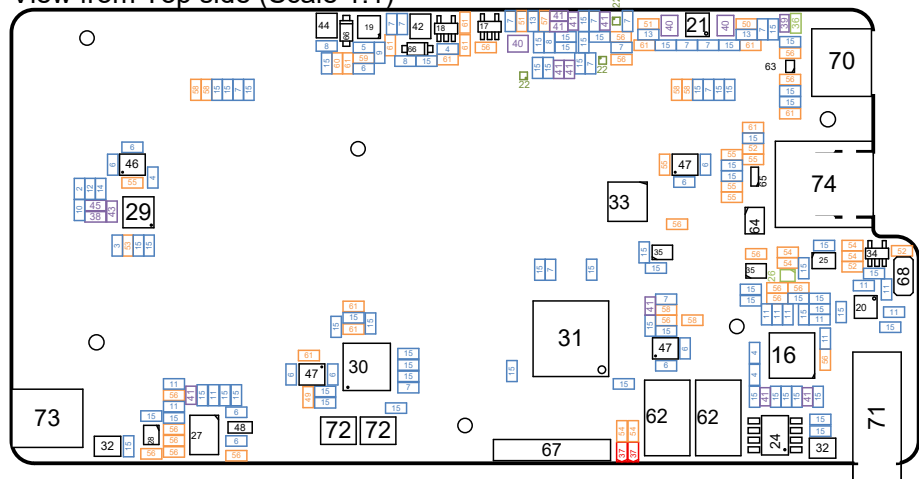
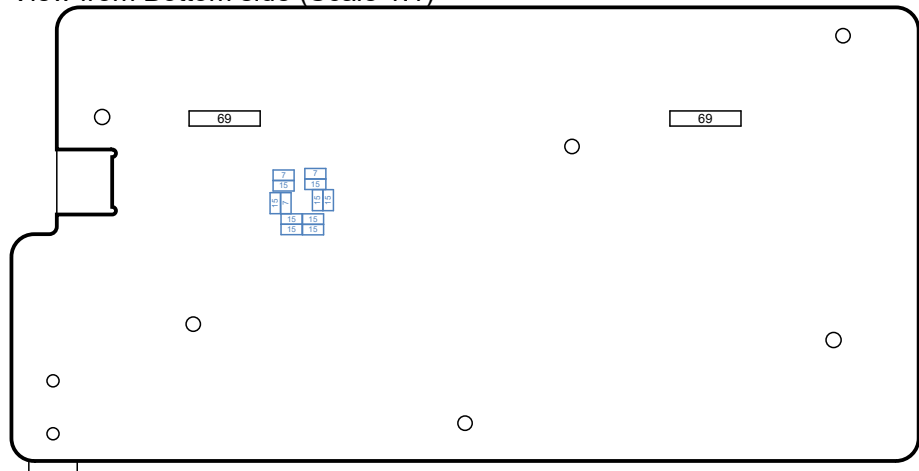


View from Top side (Scale 1:1)



View from Bottom side (Scale 1:1)



Table

C	R	L	Led		

Bill Of Materials

Item	Designator	Comment	Quantity	Footprint	Library Ref
2	C1	1pF	1	C0603 (1608 METRIC) N	CC0603BRNPO9BN1R0
3	C12	22n	1	C0603 (1608 METRIC) N	CC0603KRX7R0BB223
4	C10, C67, C68, C120	150pF	4	C0603 (1608 METRIC) N	CC0603GRNPO9BN151
5	C147	0.22uF	1	C0603 (1608 METRIC) N	CC0603MRX7R7BB224
6	C16-C19, C62, C63, C127, C128, C136, C137, C148	12pF	11	C0603 (1608 METRIC) N	CC0603FRNPO9BN120
7	C33, C43, C44, C47, C54, C61, C69, C70, C75, C78-C80, C118, C122, C124, C129, C146, C149	4.7uF	18	C0603 (1608 METRIC) N	CC0603KRX5R7BB475
8	C121, C131, C150	10uF	3	C0603 (1608 METRIC) N	CC0603MRX5R7BB106
9	C151	4.7nF	1	C0603 (1608 METRIC) N	CC0603KRX7R7BB472
10	C2	1.5pF	1	C0603 (1608 METRIC) N	CC0603BRNPO9BN1R5
11	C23, C35, C36, C42, C48, C56, C65, C66, C135, C139, C141	1uF	11	C0603 (1608 METRIC) N	CC0603KRX5R7BB105
12	C7	2.2n	1	C0603 (1608 METRIC) N	CC0603KRX7R6BB222
13	C52, C74, C130	18pF	3	C0603 (1608 METRIC) N	CC0603GRNPO9BN180
14	C8	4.7pF	1	C0603 (1608 METRIC) N	CC0603CRNPO9BN4R7
15	C3-C6, C9, C11, C13-C15, C20-C22, C24-C32, C34, C37-C41, C45, C46, C49-C51, C53, C55, C57-C60, C64, C71-C73, C76, C77, C81-C89, C92, C93, C102-C110, C113-C117, C119, C123, C125, C126, C132-C134, C138, C140	0.1uF	78	C0603 (1608 METRIC) N	CC0603KRX7R0BB104
16	DA1	CS43L22-CNZ	1	QFN50P600X600X100_HS-41N	CS43L22-CNZ
17	DA10	NCP1529ASNT1G	1	SOT23-5	NCP1529ASNT1G
18	DA11	LM2731XMF/NOPB	1	SOT23-5	LM2731XMF/NOPB
19	DA12	TPS63700DRCR	1	VSON-10	TPS63700DRCR
20	DA2	MAX97220DETE+	1	QFN-16-0.5-3X3_TP	MAX97220DETE+
21	DA3	NCP1532MUAATXG	1	UDFN10	NCP1532MUAATXG
22	DA4, DA5, DA8	FPF1107	3	WLCSP4_P0.5	FPF1107
24	DD1	AT25SF161-SSHD-T	1	SO_8N	AT25SF161-SSHD-T
25	DD10	AT24C02D-MAHM-T	1	8-UDFN (2X3)	AT24C02D-MAHM-T
26	DD11	PCA9306DQER	1	PQFN127P600-8N	PCA9306DQER
27	DD13	BNO080	1	LGA-28-0.5-5.2X3.8	BNO080
28	DD14	BMP280	1	BMP280_LGA2520	BMP280
29	DD2	NRF24L01P-T	1	QFN50P400X400X80_HS-21N	NRF24L01P-T
30	DD3	USB2514BT/M2	1	PQFN50P600X600X100_HS-37N	USB2514BT/M2
31	DD4	STM32F722RET6	1	TSQFP50P1200X1200X160-64N	STM32F722RET6
32	DD5, DD6	ICS-43434	2	ICS-43434	ICS-43434
33	DD7	ANX7530	1	BGA100C40P10X10_500X500X91	ANX7530
34	DD8	SN74LVC1T45DBVR	1	SOT23-6	SN74LVC1T45DBVR
35	DD9, DD12	74AVC4TD245GU,115	2	XQFN16	74AVC4TD245GU,115
36	F1	046701.5NR	1	F0603 (1608 METRIC) N	046701.5NR
37	HL1, HL2	KP-1608SURCK	2	LED_0603_RED	KP-1608SURCK
38	L1	3.9nH	1	L0603 (1608 METRIC) N LQW18	LQW18AN3N9C00D
39	L11	220 Ohms @ 100MHz	1	IND_0603	BLM18KG221BH1D
40	L8, L13, L20	2.2uH	3	L1008 (2520 Metric) N	MAMK2520T2R2M
41	L4-L7, L9, L10, L12, L14-L16	1 kOhms @ 100MHz	10	MPZ1608_0.8	MPZ1608S102ATA00
42	L17	10uH	1	SRN3015	SRN3015-100M
43	L2	8.2nH	1	L0603 (1608 METRIC) N LQW18	LQW18AN8N2C00D
44	L22	22uH	1	SRN3015	SRN3015-220M
45	L3	3nH	1	L0603 (1608 METRIC) N LQW18	LQW18AN3N0C8ZD
46	Q1	12.88602	1	XTAL_32_25(KX-7)	12.88602
47	Q2-Q4	12.88665	3	XTAL_32_25(KX-7)	12.88665
48	Q5	ECS-.327-12.5-34B-TR	1	3215	ECS-.327-12.5-34B-TR
49	R10	12k	1	R0603 (1608 METRIC) N	RC0603FR-0712KL
50	R18	453k	1	R0603 (1608 METRIC) N	RC0603FR-07453KL
51	R23, R52	200k	2	R0603 (1608 METRIC) N	RC0603FR-07200KL
52	R28, R33, R34	0.0	3	R0603 (1608 METRIC) N	RC0603JR-070RP
53	R3	22k	1	R0603 (1608 METRIC) N	RC0603FR-0722KL
54	R35, R36, R38, R39, R53, R54	1.5k	6	R0603 (1608 METRIC) N	RC0603FR-071K5L
55	R7, R27, R29, R31, R32, R45	1M	6	R0603 (1608 METRIC) N	RC0603FR-071ML
56	R4, R5, R8, R11-R13, R15-R17, R20-R22, R24, R26, R37, R40, R48, R51	5.1k	18	R0603 (1608 METRIC) N	RC0603FR-075K1L
57	R50	133k	1	R0603 (1608 METRIC) N	RC0603FR-07133KL
58	R14, R41, R42, R44, R46, R55	5.1	6	R0603 (1608 METRIC) N	RC0603FR-075R1L
59	R59	150k	1	R0603 (1608 METRIC) N	RC0603FR-07150KL
60	R60	619k	1	R0603 (1608 METRIC) N	RC0603FR-07619KL
61	R1, R2, R6, R9, R19, R25, R30, R56-R58, R61, R62	100k	12	R0603 (1608 METRIC) N	RC0603FR-07100KL
62	SW1, SW2	*	2	TACT SWITCH 6MM SMD	Button NO
63	VD1	HSP061-2M6	1	6-UQFN (1.45X1)	HSP061-2M6
64	VD2	HSP061-8M16	1	16-UQFN (3.5X1.5)	HSP061-8M16
65	VD3	HSP061-4M10	1	10-UQFN (2.5X1) HSP061-4M10	HSP061-4M10
66	VD5, VD6	1N5819HW-7-F	2	SOD123	1N5819HW-7-F
67	X1	PLS-6	1	PLS-6	PLS-6
68	X11	PLS-2	1	PLS-2	PLS-2
69	X10, X12	WP7B-P040VA1-R8000	2	WP7B-P040VA1	WP7B-P040VA1-R8000
70	X2	1054500101	1	1054500101	1054500101
71	X4	35RASMT4BHNRX	1	SWIT-35RASMT4BHNRX_V	35RASMT4BHNRX
72	X3, X5	5034800600	2	MOLX-503480-0600	5034800600
73	X6	1-1734035-1	1	1734035	1-1734035-1
74	X7	2129320-3	1	TE_2129320-3	2129320-3