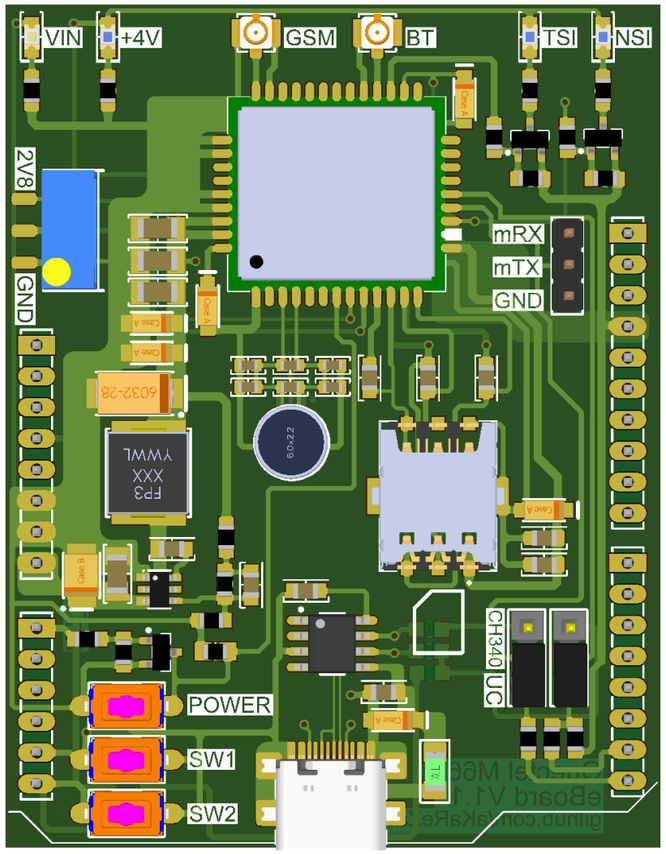
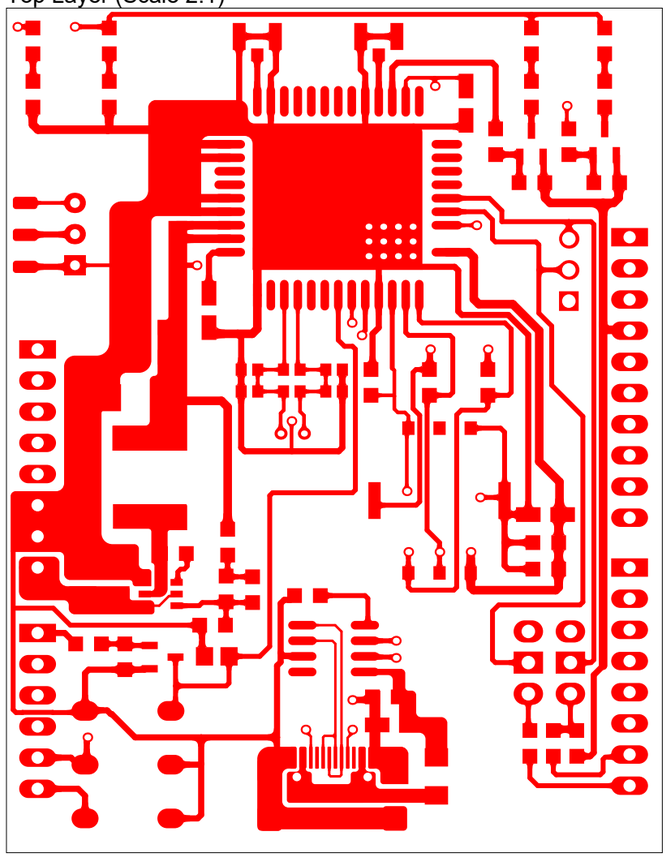
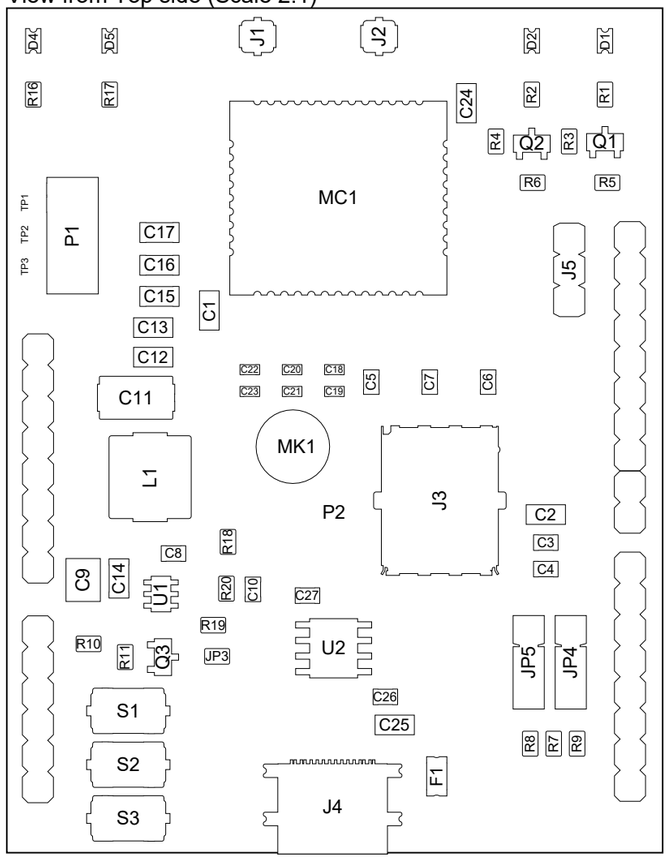
Realistic View



Top Layer (Scale 2:1)

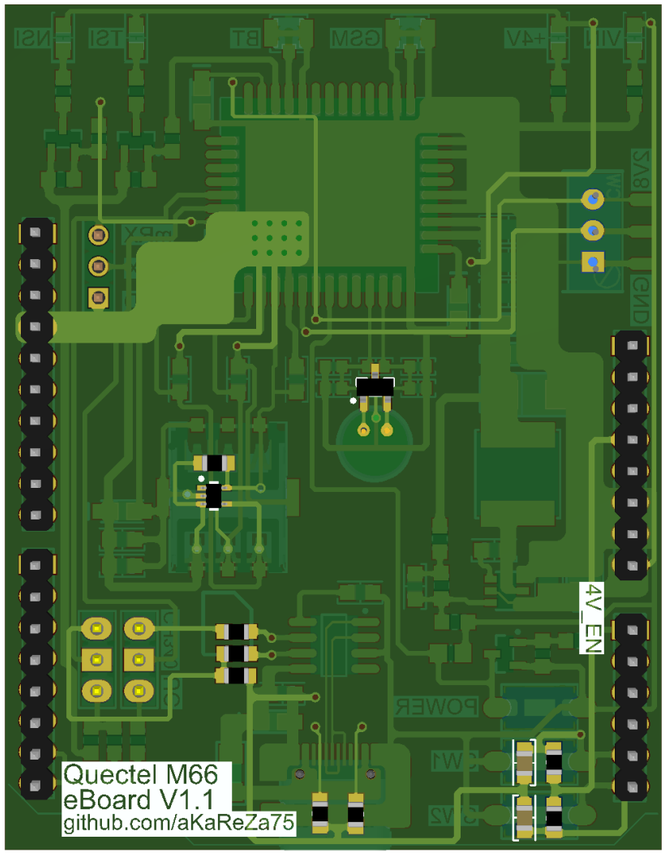


View from Top side (Scale 2:1)

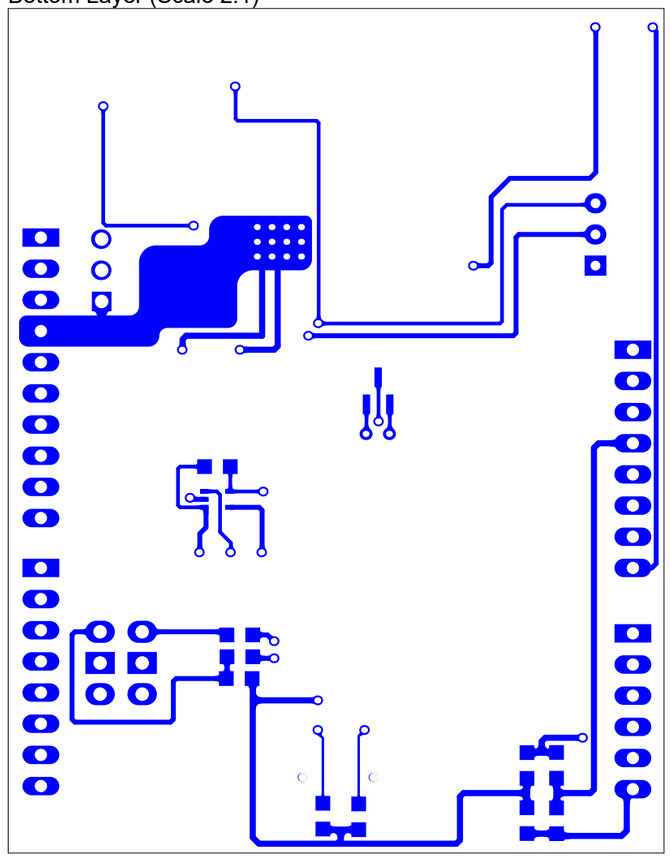


Title: TOP View	Drawn by:	Hossein Bagheri	
Project: Quectel M66	Revision: 1.1	aKaReZa	
Company: github.com/aKaReZa75	Sheet 1 of 7		

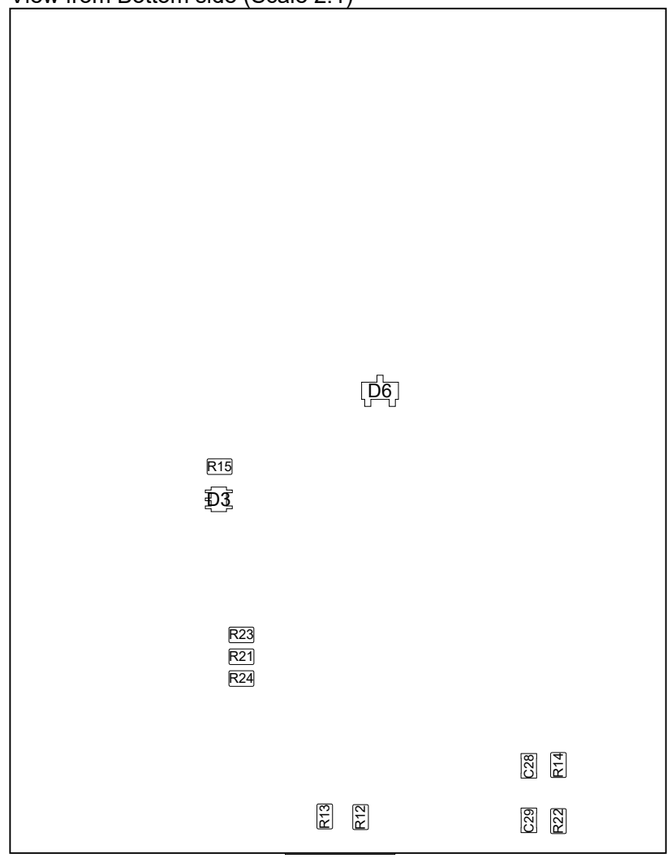
Realistic View



Bottom Layer (Scale 2:1)

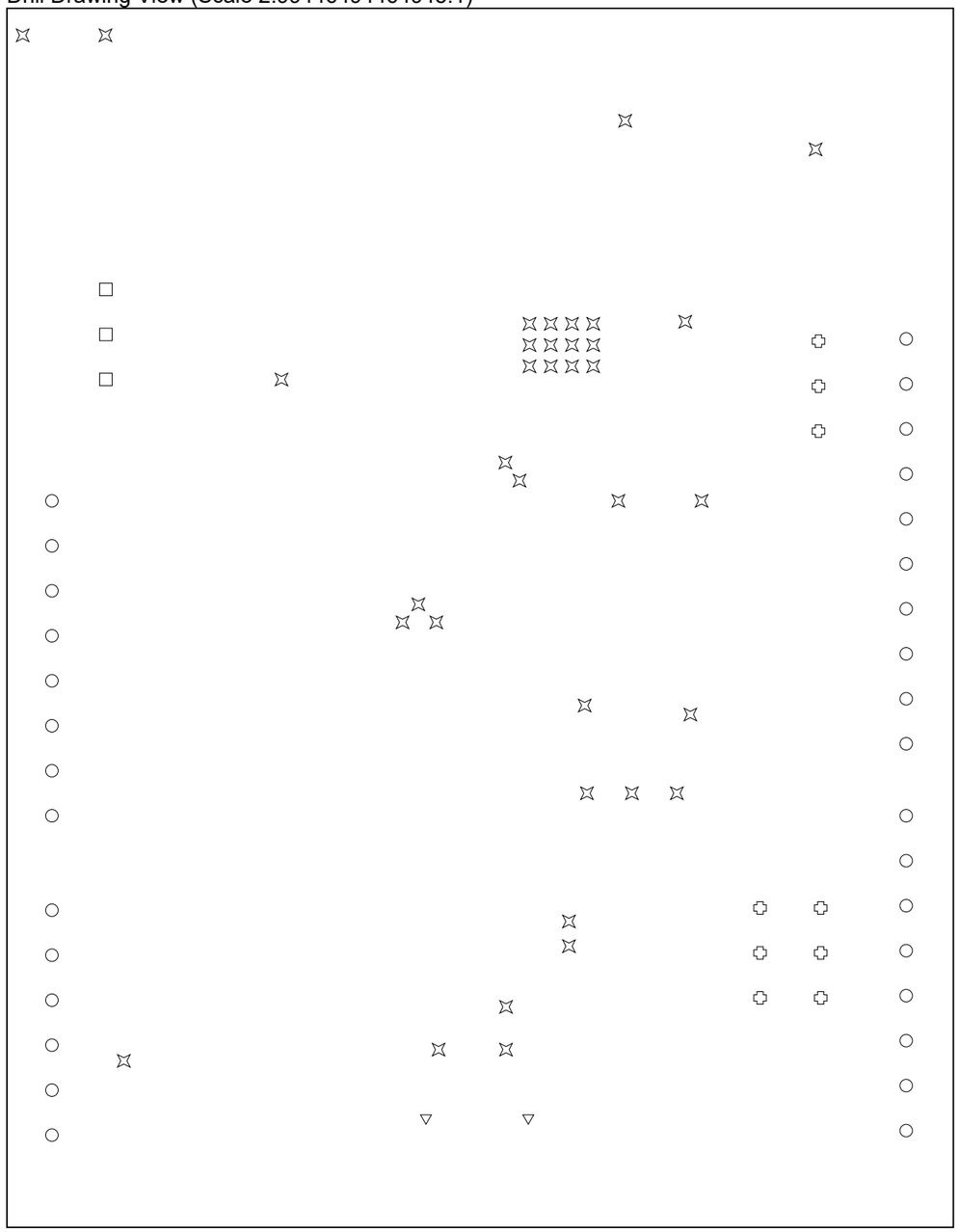


View from Bottom side (Scale 2:1)

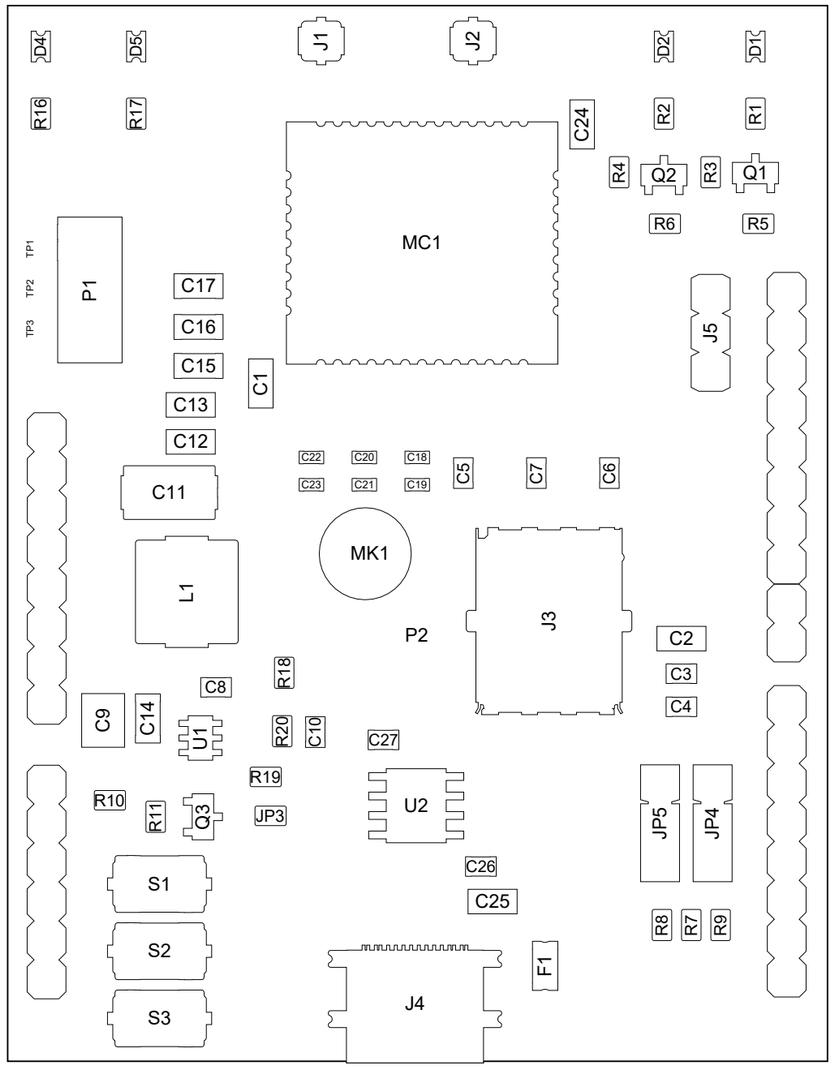


Title: Bottom View	Drawn by:	Hossein Bagheri	
Project: Quectel M66	Revision: 1.1	aKaReZa	
Company: github.com/aKaReZa75	Sheet 2 of 7		

Drill Drawing View (Scale 2.99446494464945:1)



View from Top side (Scale 5:2)

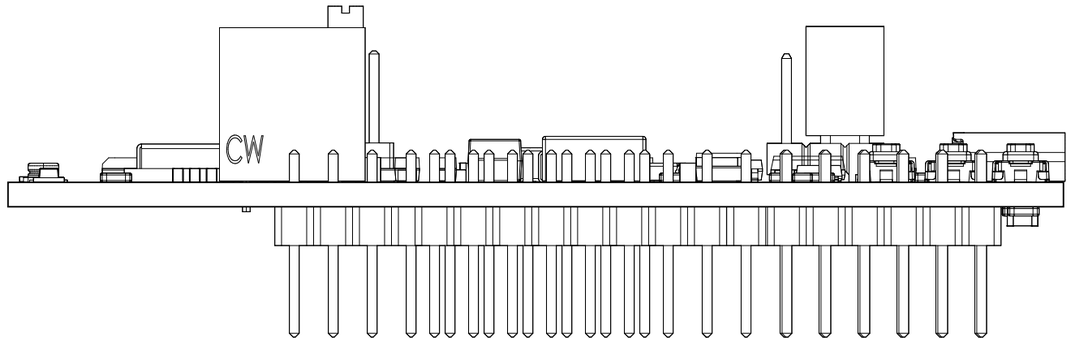


Drill Table

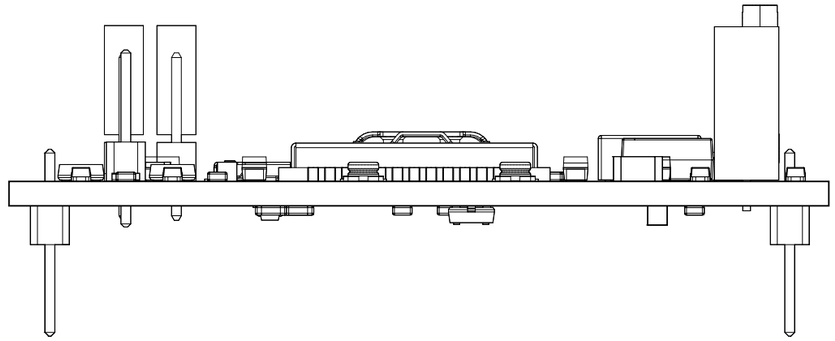
Symbol	Count	Hole Size	Plated	Hole Tolerance
⌑	36	0mm	Plated	
▽	2	1mm	Non-Plated	
□	3	1mm	Plated	
○	32	1mm	Plated	
⌖	9	1mm	Plated	
	82 Total			

Title: Drill Drawing and Dimensions	**Drawn by:**	Hossein Bagheri	
Project: Quectel M66	**Revision:** 1.1	aKaReZa	
Company: github.com/aKaReZa75	**Sheet** 3 **of** 7		

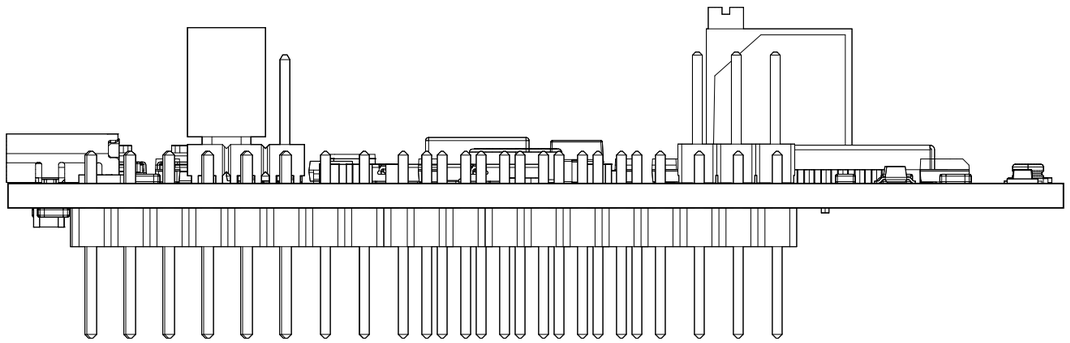
View from Left side (Scale 5:2)



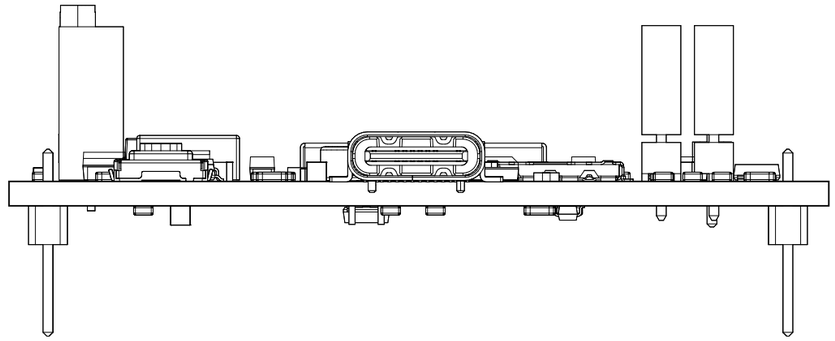
View from Back side (Scale 5:2)



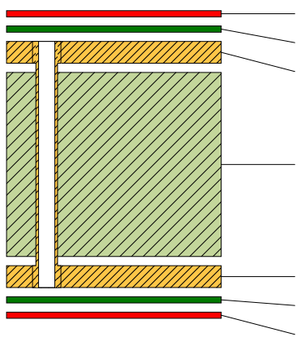
View from Right side (Scale 5:2)



View from Front side (Scale 5:2)



Layer Stack Legend

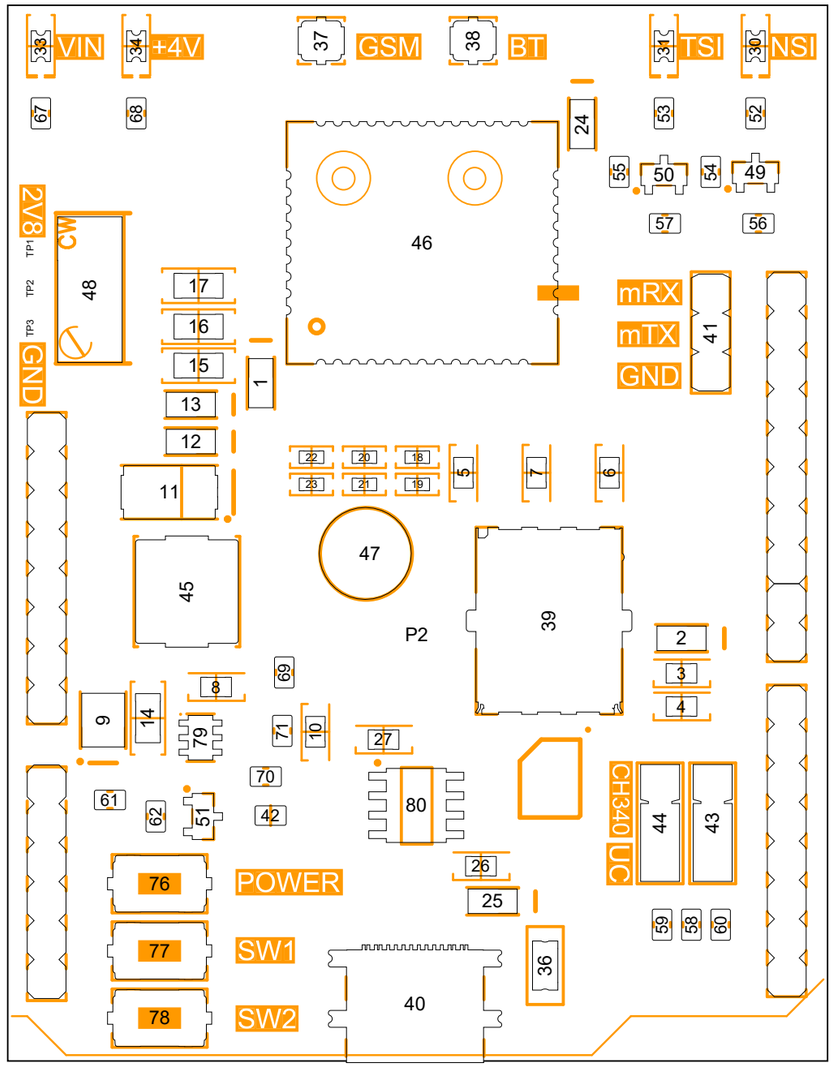


Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0mm	Solder Resist	Solder Mask	GTS
Copper	**Top Layer**	**0mm**		**Signal**	**GTL**
		1mm	*FR-4*	*Dielectric*	
Copper	**Bottom Layer**	**0mm**		**Signal**	**GBL**
Surface Material	Bottom Solder	0mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

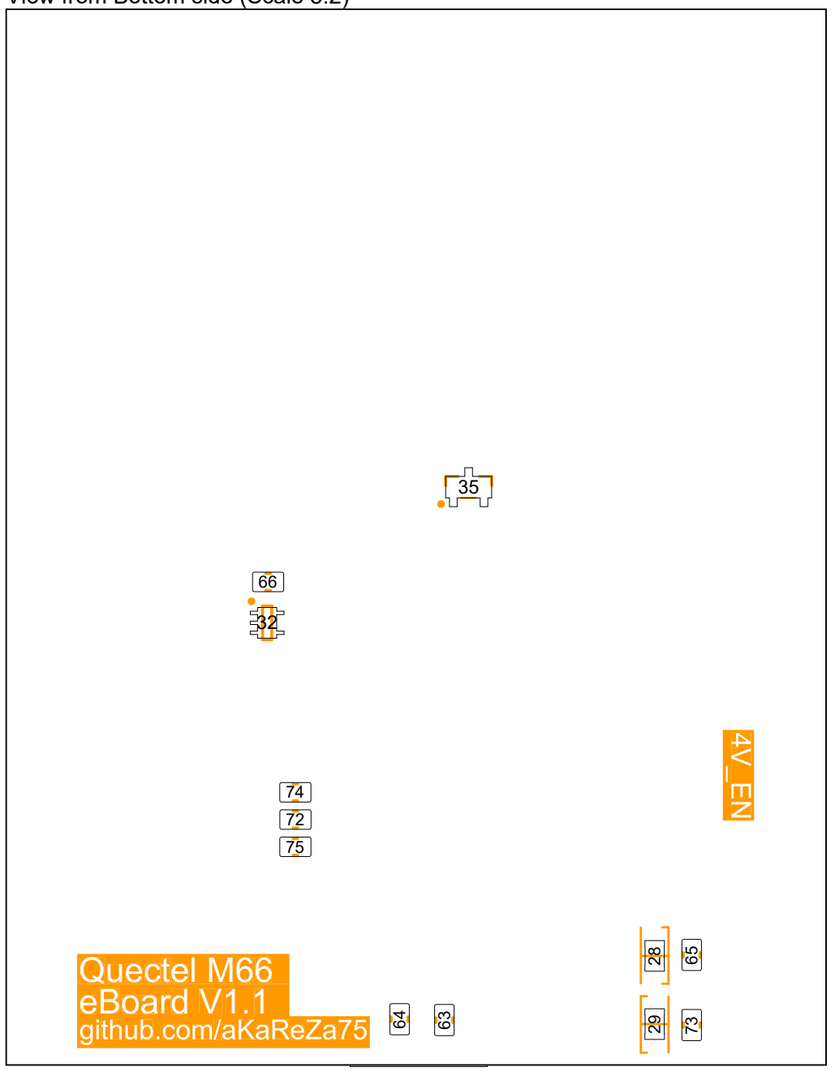
Total thickness: 2mm

Title: Layer Stack and Side View	**Drawn by:**	Hossein Bagheri	
Project: Quectel M66	**Revision:** 1.1	aKaReZa	
Company: github.com/aKaReZa75	**Sheet** 4 **of** 7		

View from Top side (Scale 5:2)



View from Bottom side (Scale 5:2)



Title: Component Positions View	Drawn by:	Hossein Bagheri	
Project: Quectel M66	Revision: 1.1	aKaReZa	
Company: github.com/aKaReZa75	Sheet 5 of 7		

Bill Of Materials

Line #	Designator	Comment	Library Ref	Footprint	Package	Rating	Type	Value
1	C1	10u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	10u
2	C2	1u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	1u
3	C3	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
4	C4	33p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	33p
5	C5	33p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	33p
6	C6	33p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	33p
7	C7	33p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	33p
8	C8	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
9	C9	10u	Cap_Tantalum	SMT_C_Tantalum_B	Package?	25v	Tantalum	10u
10	C10	68p	Cap_Multi_SMD_0805	CAP 0805/2012	0805	Rating?	MultiLayer	68p
11	C11	100u	Cap_Tantalum	SMT_C_Tantalum_C	SMD-C	6.3V	Tantalum	100u
12	C12	10u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3v	Tantalum	10u
13	C13	1u	Cap_Tantalum	SMT_C_Tantalum_A	SMD-A	6.3V	Tantalum	1u
14	C14	100n	Cap_Multi_SMD_100nF_1206	CAP 1206/3216	1206	50V	MultiLayer	100n
15	C15	100n	Cap_Multi_SMD_100nF_1206	CAP 1206/3216	1206	50V	MultiLayer	100n
16	C16	33p	Cap_Multi_SMD_1206	CAP 1206/3216	1206	50V	MultiLayer	33p
17	C17	10p	Cap_Multi_SMD_1206	CAP 1206/3216	1206	50V	MultiLayer	10p
18	C18	10p	Cap_Multi_SMD	CAP 0603/1608	Package?	Rating?	Type?	10p
19	C19	33p	Cap_Multi_SMD	CAP 0603/1608	Package?	Rating?	Type?	33p
20	C20	10p	Cap_Multi_SMD	CAP 0603/1608	Package?	Rating?	Type?	10p
21	C21	33p	Cap_Multi_SMD	CAP 0603/1608	Package?	Rating?	Type?	33p
22	C22	10p	Cap_Multi_SMD	CAP 0603/1608	Package?	Rating?	Type?	10p
23	C23	33p	Cap_Multi_SMD	CAP 0603/1608	Package?	Rating?	Type?	33p
24	C24	4.7u	Cap_Tantalum	SMT_C_Tantalum_A	Package?	6.3V	Tantalum	4.7u
25	C25	DS1307	Cap_Tantalum	SMT_C_Tantalum_A	SMD-A	6.3V	Tantalum	4.7u
26	C26	DS1307	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
27	C27	10n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	10n
28	C28	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
29	C29	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
30	D1	Blue	Semi_LED_SMD	LED 0805/2012 BLUE	Package?	Rating?	LED	Blue
31	D2	Blue	Semi_LED_SMD	LED 0805/2012 BLUE	Package?	Rating?	LED	Blue
32	D3	SMF-05	Semi_Diod_TVS_SMF05	SC70-5_N	SC70-5	Rating?	TVS	SMF-05
33	D4	Yellow	Semi_LED_SMD	LED 0805/2012 YELLOW	Package?	Rating?	LED	Yellow
34	D5	Blue	Semi_LED_SMD	LED 0805/2012 BLUE	Package?	Rating?	LED	Blue
35	D6	SM712	Semi_Diod_TVS_SM712	SOT23_M	Package?	Rating?	Type?	SM712
36	F1	0.25A	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	0.25A
37	J1	U.FL	Con_RF_U.FL	IPEX-3x3mm	SMD	Rating?	RF	U.FL
38	J2	U.FL	Con_RF_U.FL	IPEX-3x3mm	SMD	Rating?	RF	U.FL
39	J3	6'Pin	Con_Socket_SimCard_1	GCT_SIM8051_Plastik	SMD	Rating?	Nano	6'Pin
40	J4	16b	Con_USB_C_16P	USBC_SMD_16_USB4110 - Extended	SMD	Rating?	C	16b
41	J5	3	Con_MPH_3x1_V_THT_2.54	HDR_THT_3M_2.54mm	Package?	Rating?	Type?	3
42	JP3	Jumper	Other_Elec_Jumper_0805	RESC2012M (0805)	0805	Rating?	Type?	Jumper
43	JP4	0b	SW_Other_JSelector_THT	jumper selector	Dip	Rating?	Selector	0b
44	JP5	0b	SW_Other_JSelector_THT	jumper selector	Dip	Rating?	Selector	0b
45	L1	10u	Ind_SMD	L_7	Package?	3.8A	Type?	10u
46	MC1	M66	ModSen_Com_M66	m66	Dip	Rating?	GSM-GPRS	M66

Title: Bill of Materials	**Drawn by:**	Hossein Bagheri	
Project: Quectel M66	**Revision:** 1.1	aKaReZa	
Company: github.com/aKaReZa75	**Sheet** 6 **of** 7		

Bill Of Materials

Line #	Designator	Comment	Library Ref	Footprint	Package	Rating	Type	Value
47	MK1	Mic	Other_Elec_Microphone	mic6	Package?	Rating?	Type?	Mic
48	P1	10K	Res_Multi	Multi turn 01	Package?	Rating?	Type?	10K
49	Q1	NPN	Semi_BJT_BC817	SOT23_N	Package?	Rating?	Type?	NPN
50	Q2	NPN	Semi_BJT_BC817	SOT23_N	Package?	Rating?	Type?	NPN
51	Q3	NPN	Semi_BJT_BC817	SOT23_N	Package?	Rating?	Type?	NPN
52	R1	100b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	100b
53	R2	100b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	100b
54	R3	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
55	R4	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
56	R5	47K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	47K
57	R6	47K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	47K
58	R7	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
59	R8	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
60	R9	5.6K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	5.6K
61	R10	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
62	R11	47K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	47K
63	R12	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
64	R13	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
65	R14	10K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	10K
66	R15	15k	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	15k
67	R16	1.8K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1.8K
68	R17	100b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	100b
69	R18	49.9b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	1%	49.9b
70	R19	17.8K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	1%	17.8K
71	R20	100K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	1%	100K
72	R21	560b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	560b
73	R22	10K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	10K
74	R23	560b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	560b
75	R24	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
76	S1	PB	SW_PushButton_2_SMD	SW_PB_SMD_2PIN_SPST_6X3X2	SMD	2b	Vertical	PB
77	S2	PB	SW_PushButton_2_SMD	SW_PB_SMD_2PIN_SPST_6X3X2	SMD	2b	Vertical	PB
78	S3	PB	SW_PushButton_2_SMD	SW_PB_SMD_2PIN_SPST_6X3X2	SMD	2b	Vertical	PB
79	U1	TPS54302	IC_Reg_TPS54302	TPS54302	SOT-23-6	S	Switching	TPS54302
80	U2	CH340N	IC_Converter_CH340N	SO8_narrow_m	SO-8	Rating?	USB to TTL	CH340N

Title: Bill of Materials	Drawn by:	Hossein Bagheri	
Project: Quectel M66	Revision: 1.1	aKaReZa	
Company: github.com/aKaReZa75	Sheet 7 of 7		