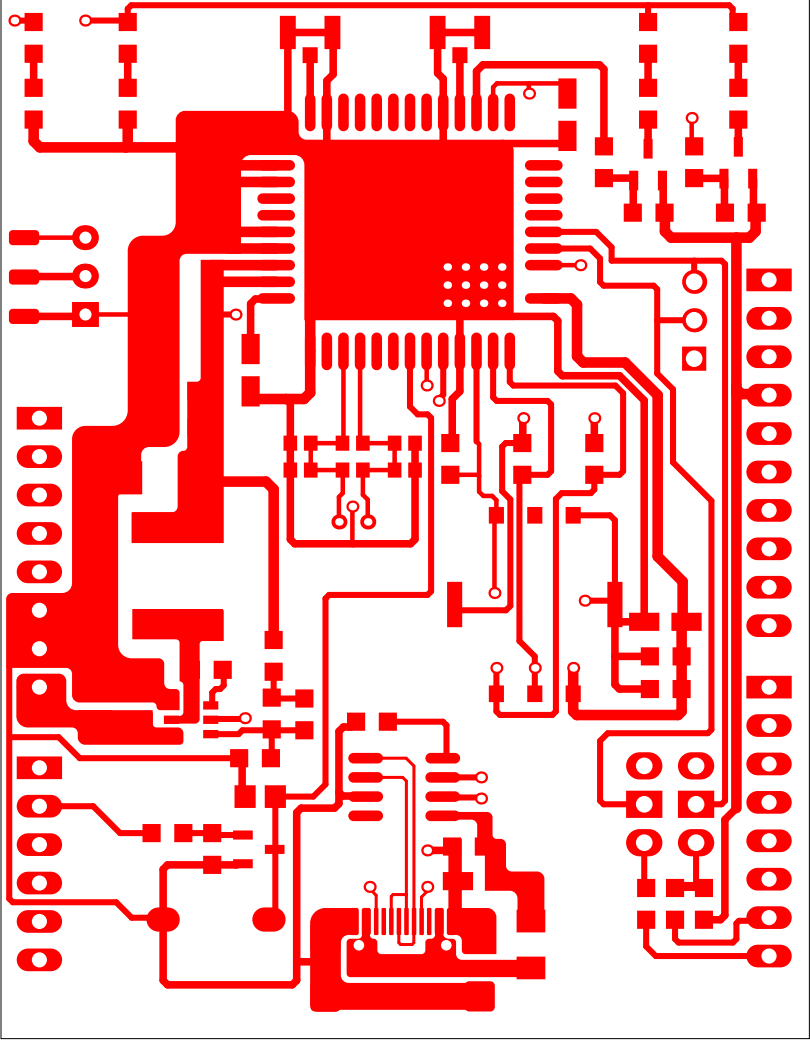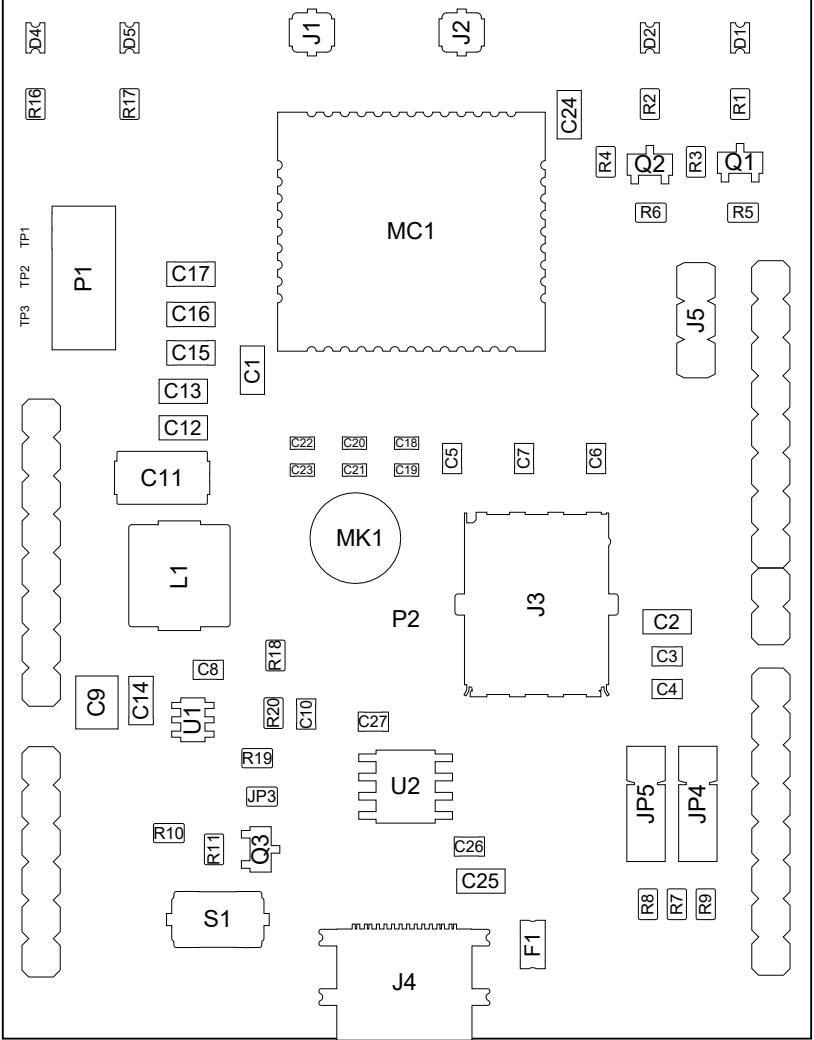Realistic View

Top Layer (Scale 2:1)

View from Top side (Scale 2:1)

VIN +4V GSM BT TSI NSI

2V8

GND

mRX
mTX
GND

6032-28

FP3
XXX
YWWL

6.0x22

CH340 UC

POWER

J1 J2

R16 R17 C24 R2 R1

R4 Q2 R3 Q1

R6 R5

TP3 TP2 TP1

P1 MC1

C17
C16
C15 C1 J5
C13
C12

C22 C20 C18 C5 C7 C6
C23 C21 C19

C11

MK1

L1 J3 C2
C3
P2 C4

C9 C14 C8 R18
U1 R20 C10 C27

R19
JP3 U2 JP5 JP4

R10 R11 Q3 C26
C25 R8 R7 R9

S1 F1
J4

Title: **TOP View**	Drawn by:	**Hossein Bagheri**
Project: **Quectel M66**	Revision: **1.0**	aKaReZa
Company: **github.com/aKaReZa75**	Sheet **1** of **7**	

Realistic View

Quectel M66
eBoard V1.0
github.com/aKaReZa75

4V_EN
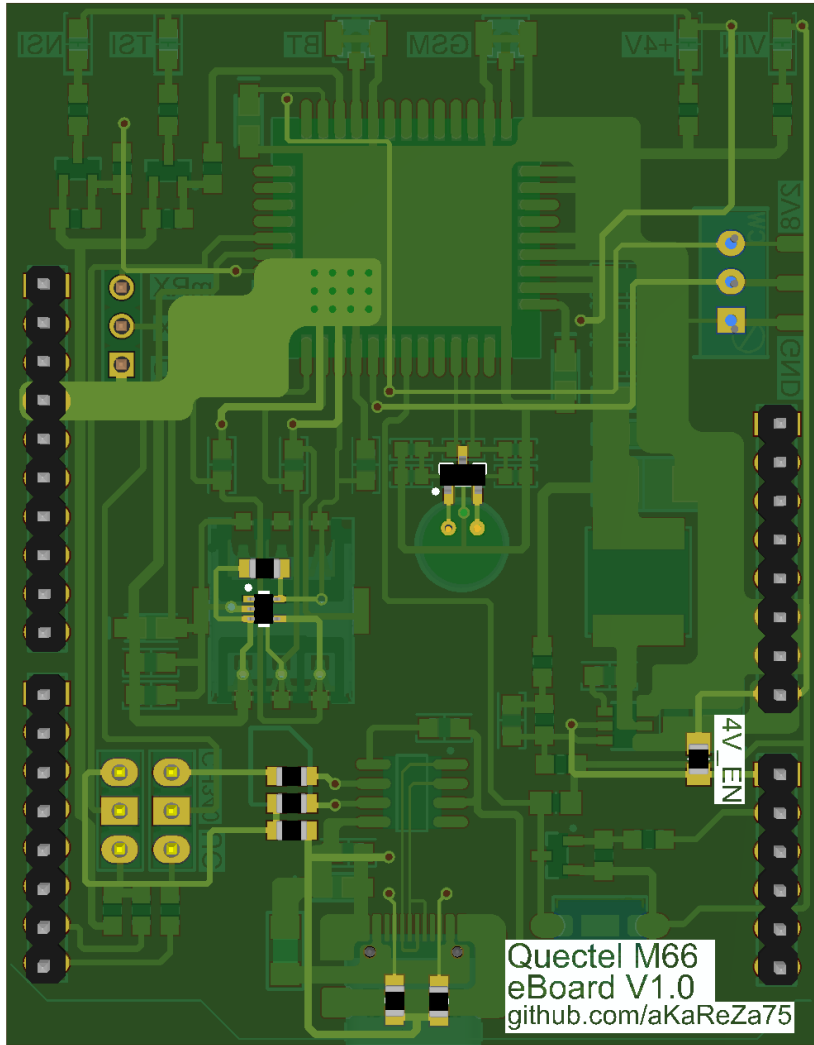
Bottom Layer (Scale 2:1)

View from Bottom side (Scale 2:1)

D6

R15
D3

R23
R21
R24

JP1

R13 R12

Drill Drawing View (Scale 2.99446494464945:1)
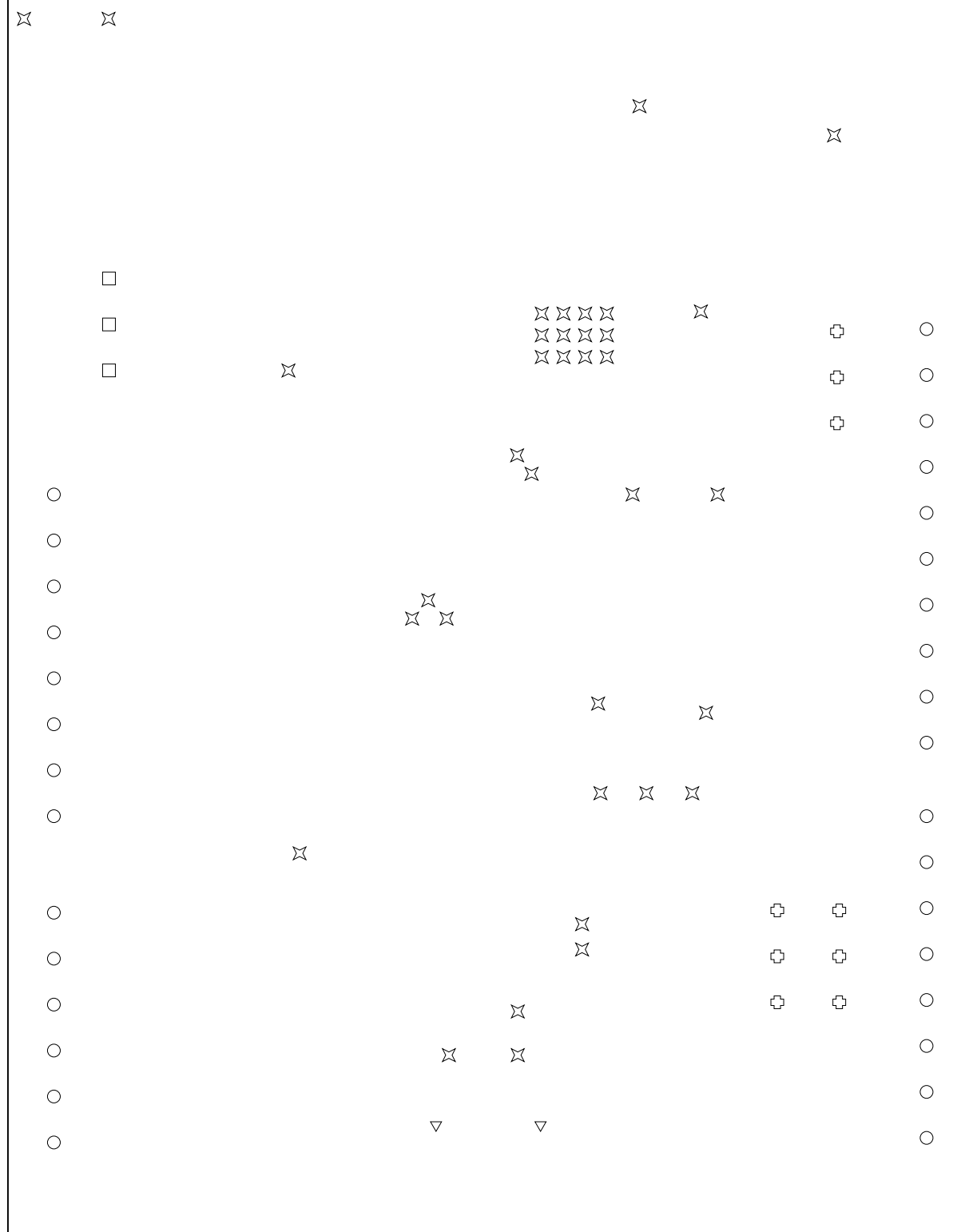
View from Top side (Scale 5:2)
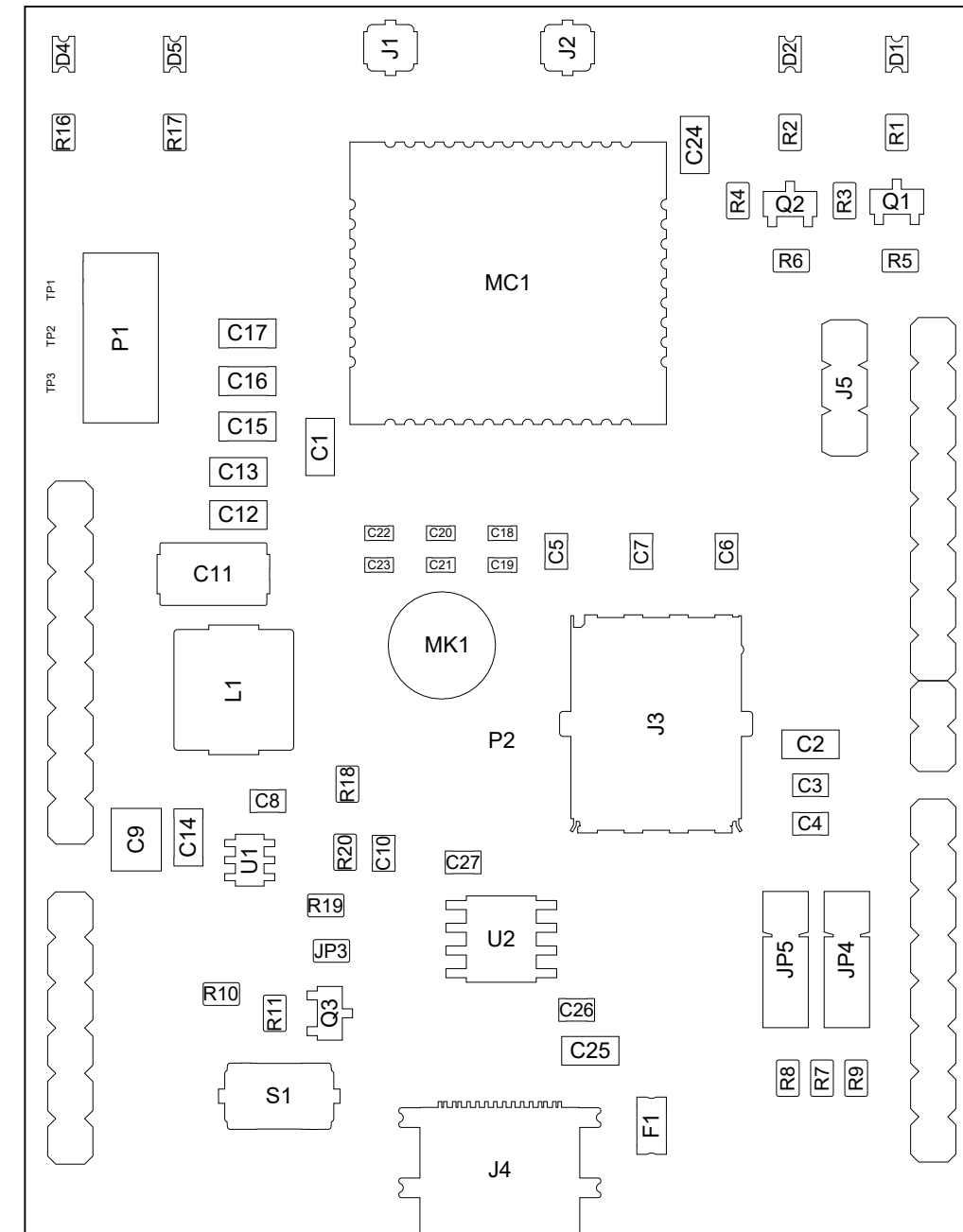
Drill Table

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:** **1.0**	aKaReZa	
Company: **github.com/aKaReZa75**	**Sheet** **3** **of** **7**		

View from Left side (Scale 5:2)

CW
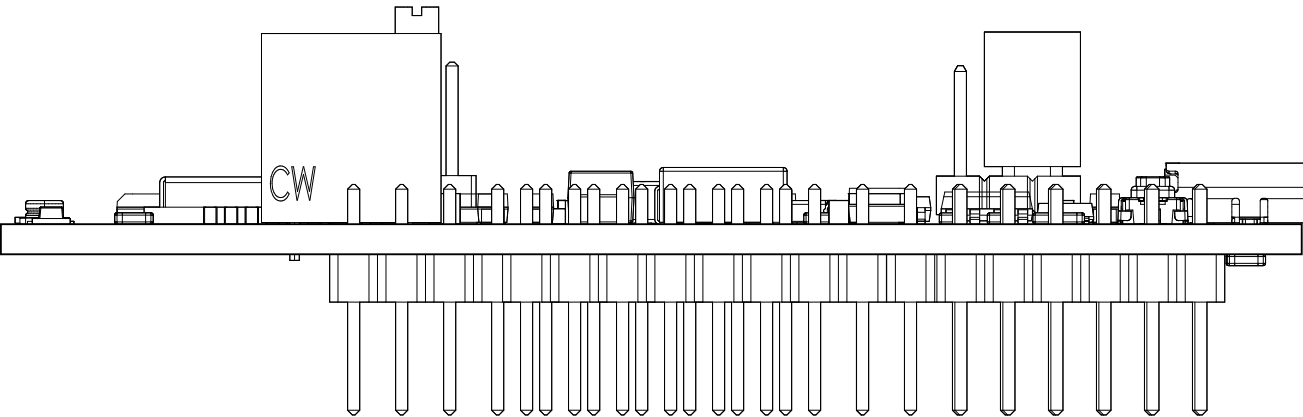
View from Back side (Scale 5:2)
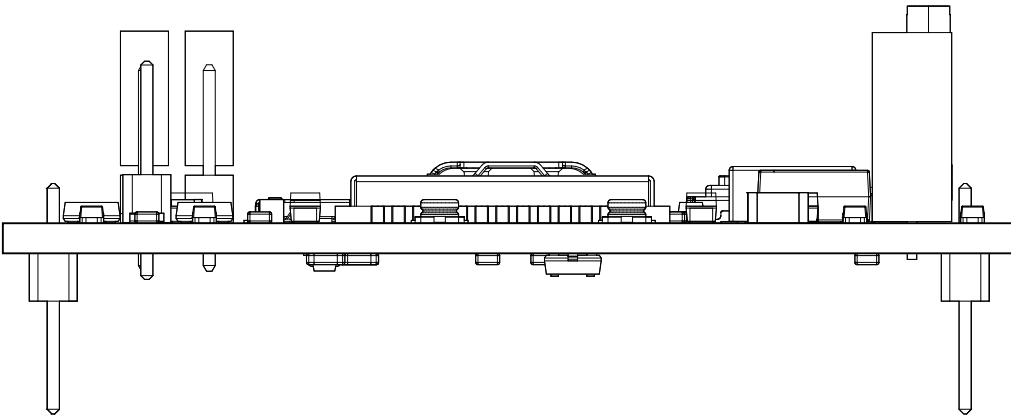
View from Right side (Scale 5:2)
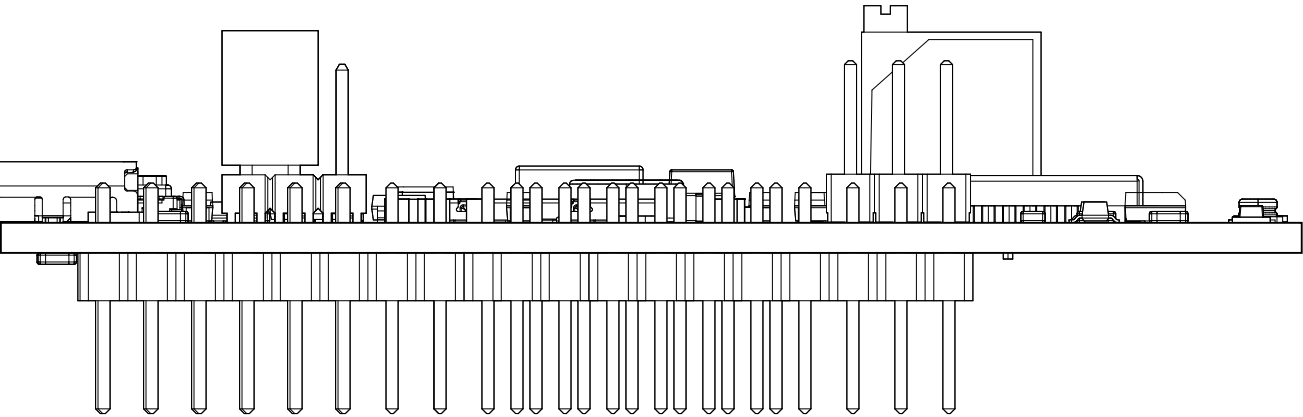
View from Front side (Scale 5:2)
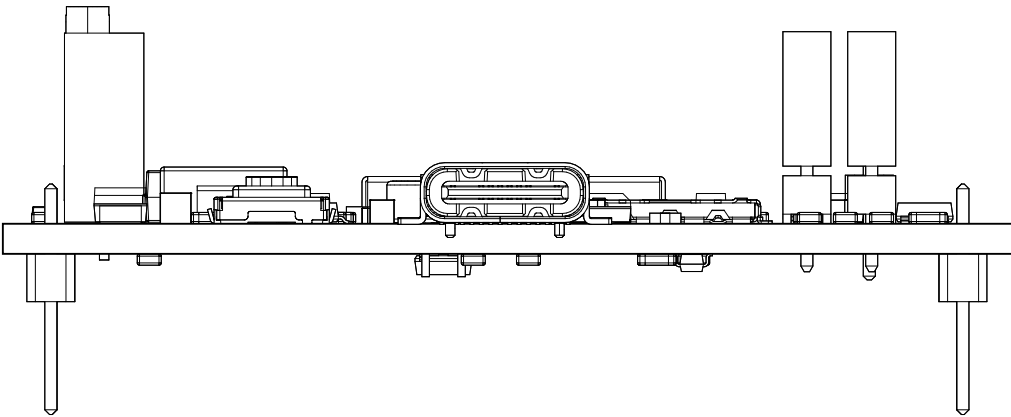
Layer Stack Legend

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: 1.0

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View from Top side (Scale 5:2)

View from Bottom side (Scale 5:2)

31 VIN 32 +4V 35 GSM 36 BT 29 TSI 28 NSI

65 66 52 51

2V8 47 CW 24 54 49 53 48 56 55

45

17 mRX
16 mTX
15 GND
13 39
12 1

11 22 20 18 5 7 6
23 21 19

46 33

GND

P2 37 64
30

44 2 71
3 70
9 14 67 4 72
74 69 10 27
68 40 4V_EN
41 75 43 42 CH340 UC
60 61 50 26
25
73 58 57 59

POWER 34

38 63 62

Quectel M66
eBoard V1.0
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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	D1	Blue	Semi_LED_SMD	LED 0805/2012 BLUE	Package?	Rating?	LED	Blue
29	D2	Blue	Semi_LED_SMD	LED 0805/2012 BLUE	Package?	Rating?	LED	Blue
30	D3	SMF-05	Semi_Diod_TVS_SMF05	SC70-5_N	SC70-5	Rating?	TVS	SMF-05
31	D4	Yellow	Semi_LED_SMD	LED 0805/2012 YELLOW	Package?	Rating?	LED	Yellow
32	D5	Blue	Semi_LED_SMD	LED 0805/2012 BLUE	Package?	Rating?	LED	Blue
33	D6	SM712	Semi_Diod_TVS_SM712	SOT23_M	Package?	Rating?	Type?	SM712
34	F1	0.25A	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	0.25A
35	J1	U.FL	Con_RF_U.FL	IPEX-3x3mm	SMD	Rating?	RF	U.FL
36	J2	U.FL	Con_RF_U.FL	IPEX-3x3mm	SMD	Rating?	RF	U.FL
37	J3	6'Pin	Con_Socket_SimCard_1	GCT_SIM8051_Plastik	SMD	Rating?	Nano	6'Pin
38	J4	16b	Con_USB_C_16P	USBC_SMD_16_USB4110 - Extended	SMD	Rating?	C	16b
39	J5	3	Con_MPH_3x1_V_THT_2.54	HDR_THT_3M_2.54mm	Package?	Rating?	Type?	3
40	JP1	Jumper	Other_Elec_Jumper_0805	RESC2012M (0805)	0805	Rating?	Type?	Jumper
41	JP3	Jumper	Other_Elec_Jumper_0805	RESC2012M (0805)	0805	Rating?	Type?	Jumper
42	JP4	0b	SW_Other_JSelector_THT	jumper selector	Dip	Rating?	Selector	0b
43	JP5	0b	SW_Other_JSelector_THT	jumper selector	Dip	Rating?	Selector	0b
44	L1	10u	Ind_SMD	L_7	Package?	3.8A	Type?	10u
45	MC1	M66	ModSen_Com_M66	m66	Dip	Rating?	GSM-GPRS	M66
46	MK1	Mic	Other_Elec_Microphone	mic6	Package?	Rating?	Type?	Mic

Title: **Bill of Materials**

Drawn by:

Hossein Bagheri

Project: **Quectel M66**

Revision: **1.0**

aKaReZa

Company: **github.com/aKaReZa75**

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Bill Of Materials

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