Realistic View

JTAG-20P

GND
TXD
RXD
rRESET
SWIM
SWDIO
SWO
SWCLK
3V3

STLINK V3 minie
STLINK V2
STM8
PROG
REG
RXD
UART
TXD
REG 3V3
BLUEPILL
CheapPRJ

STM Interface V1.0
github.com/aKaReZa75

Top Layer (Scale 2:1)

View from Top side (Scale 2:1)

P2
MP3 J2 MP4
P1 P6 P7
JP1
P3 JP6
JP5
R5
P4
P5
MP1 J1 MP2

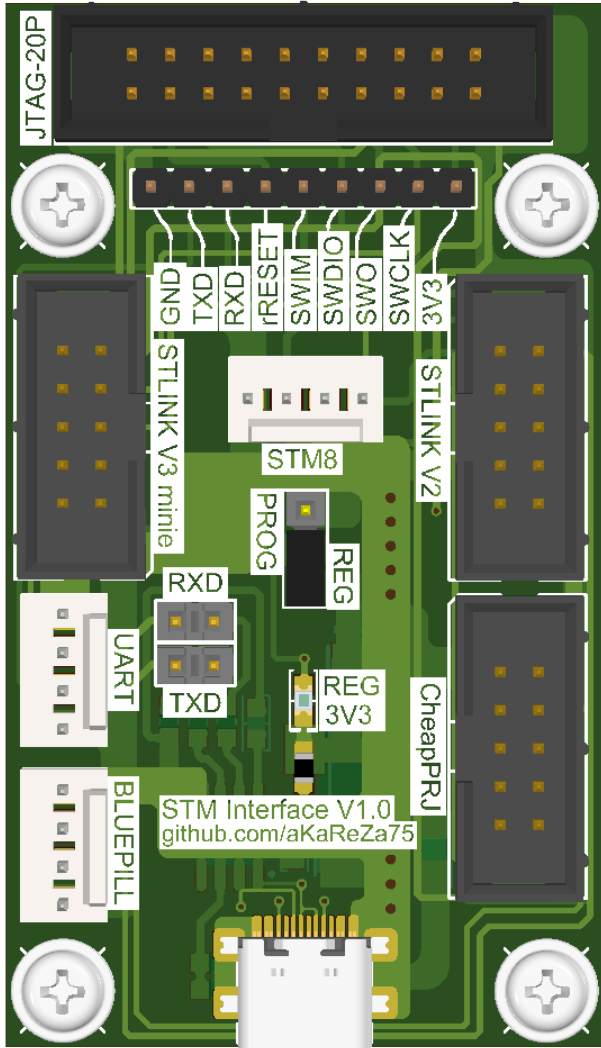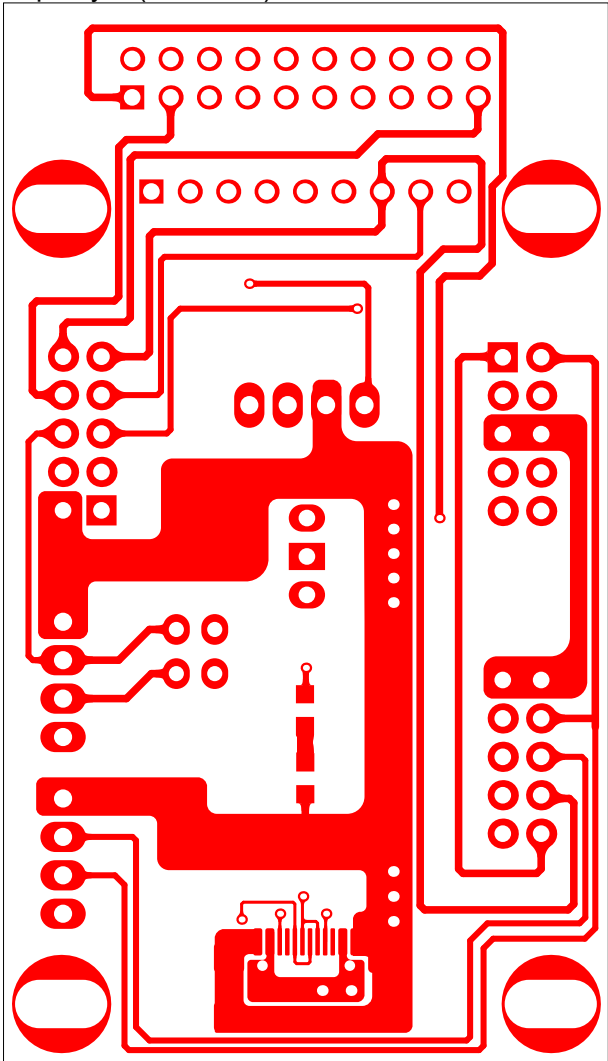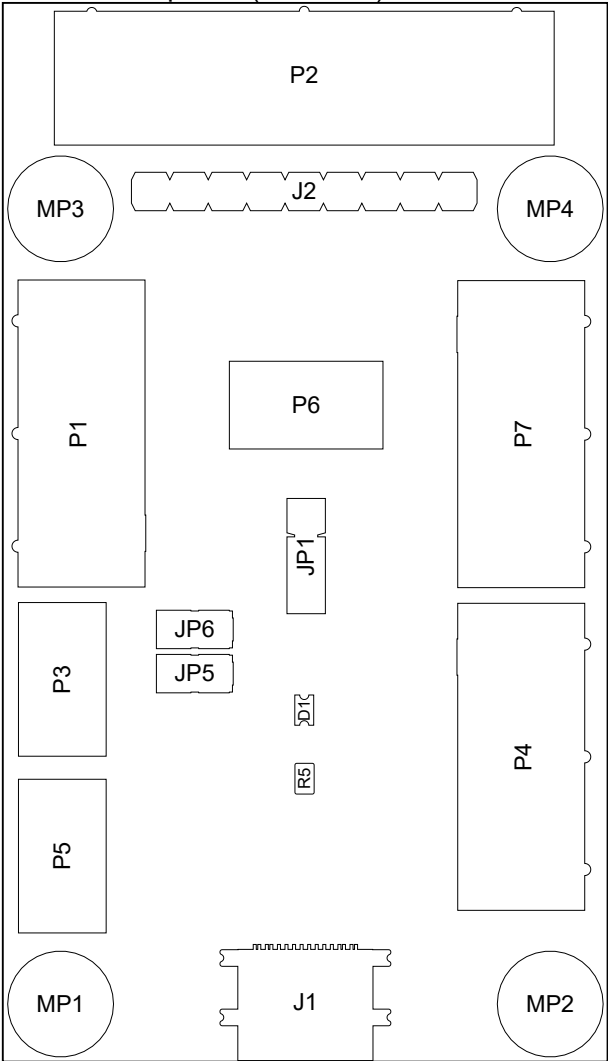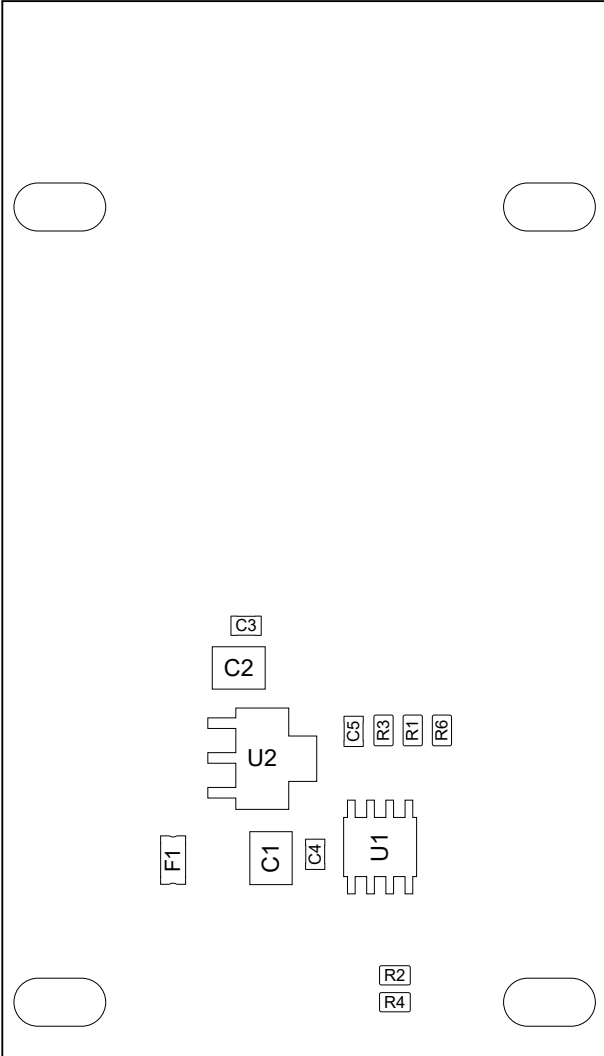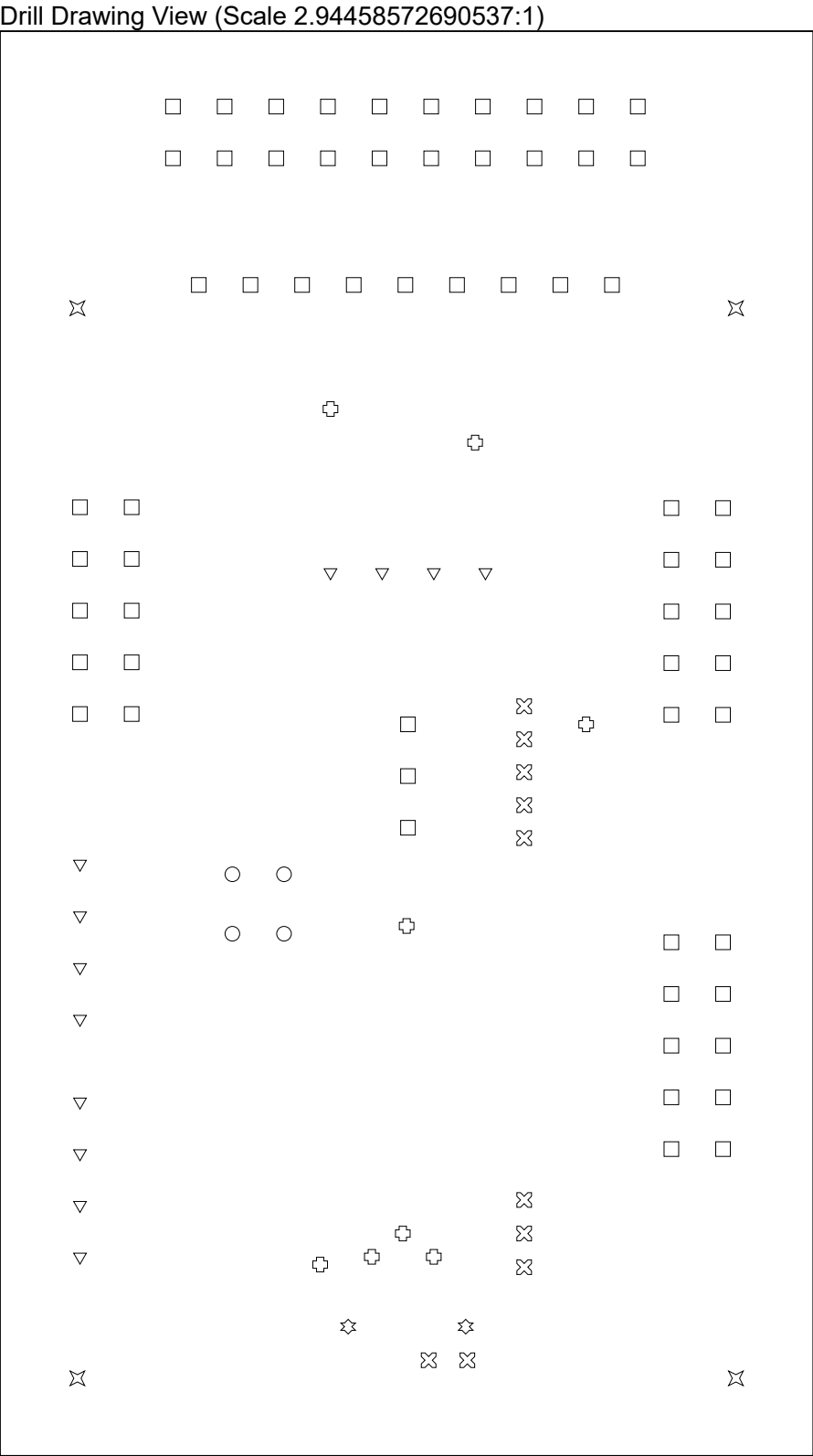| Title: **TOP View**	Drawn by:	**Hossein Bagheri**	
Project: **STLINK Interface**	Revision: **1.0**	**aKaReZa**	
Company: **github.com/aKaReZa75**	Sheet **1** of **6**		

Realistic View
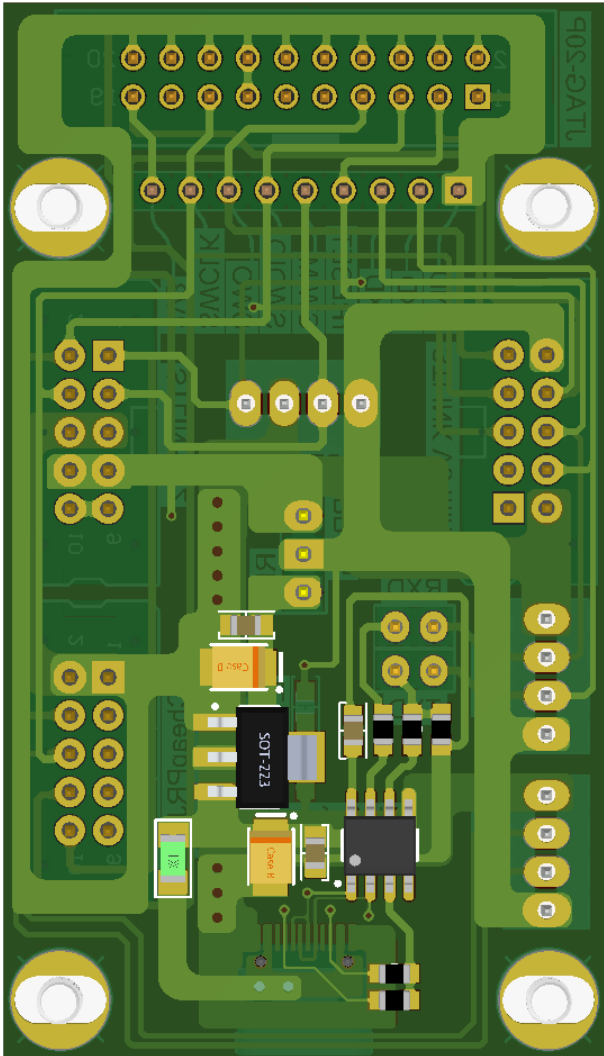
Bottom Layer (Scale 2:1)

View from Bottom side (Scale 2:1)

Title: **Bottom View**	Drawn by:	**Hossein Bagheri**
Project: **STLINK Interface**	Revision: **1.0**	aKaReZa
Company: **github.com/aKaReZa75**	Sheet **2** of **6**	

Drill Drawing View (Scale 2.94458572690537:1)

View from Top side (Scale 5:2)

P2

MP3   J2   MP4

P1   P6   P7

JP1

JP6
P3   JP5

D1

R5

P5   P4

MP1   J1   MP2
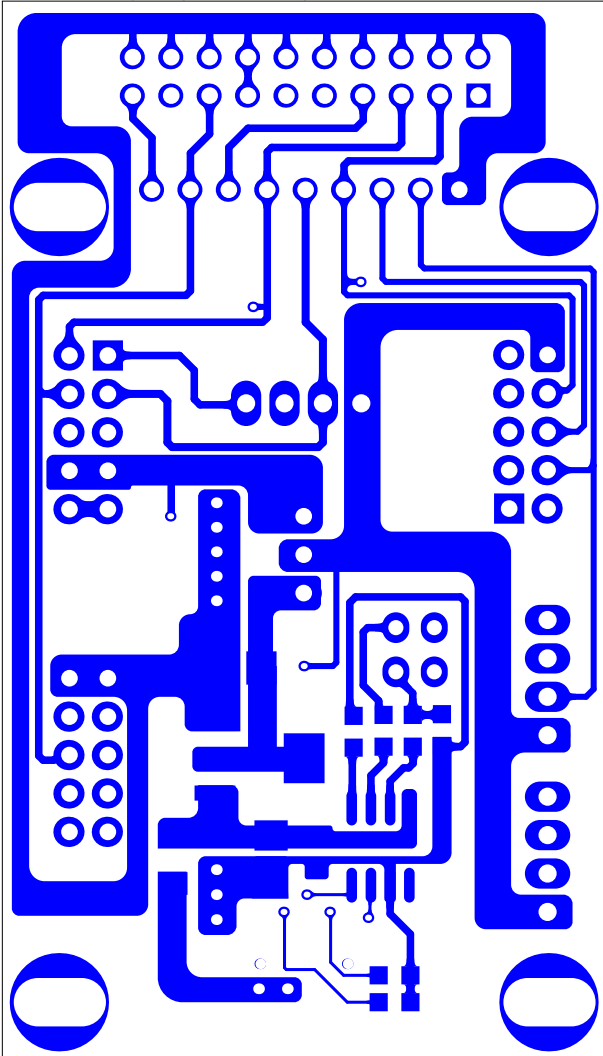
Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
✧	8	0mm	Plated	
✿	2	1mm	Non-Plated	
⊠	10	1mm	Plated	
○	4	1mm	Plated	
□	62	1mm	Plated	
▽	12	1mm	Plated	
⋈	4	3mm	Plated	
	102 Total			
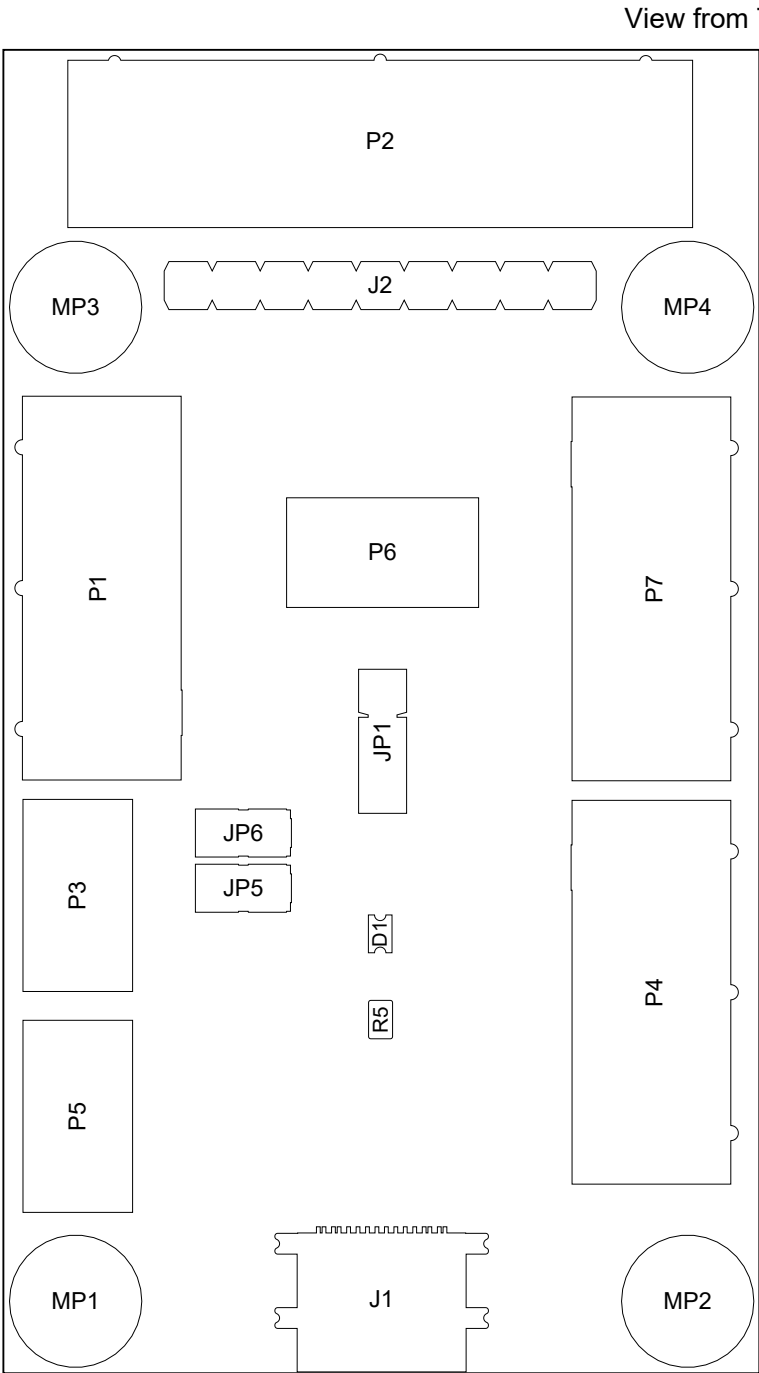
Title:	Drill Drawing and Dimensions	Drawn by:		Hossein Bagheri
Project:	STLINK Interface	Revision:	1.0	aKaReZa
Company:	github.com/aKaReZa75	Sheet	3 of 6	

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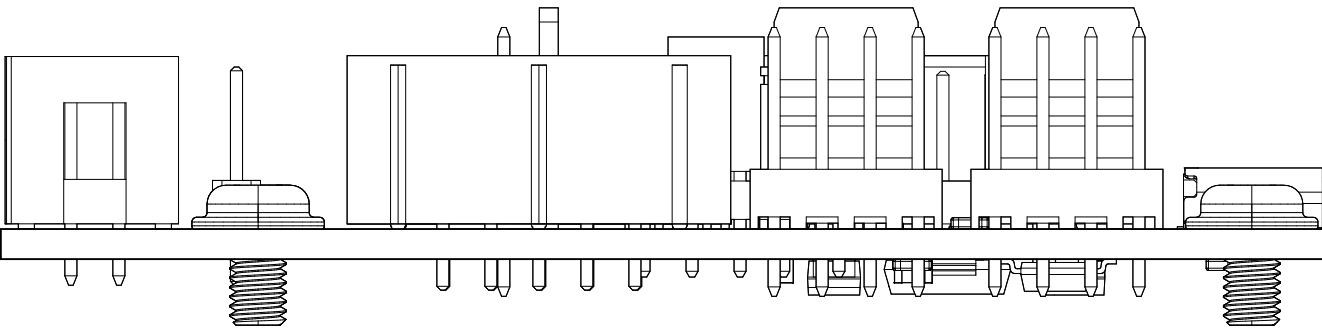
View from Back side (Scale 5:2)
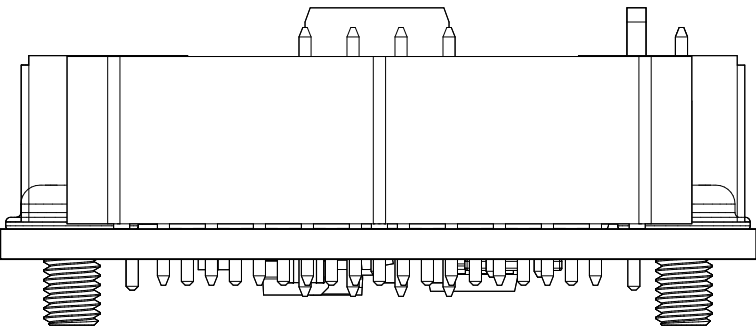
View from Right side (Scale 5:2)
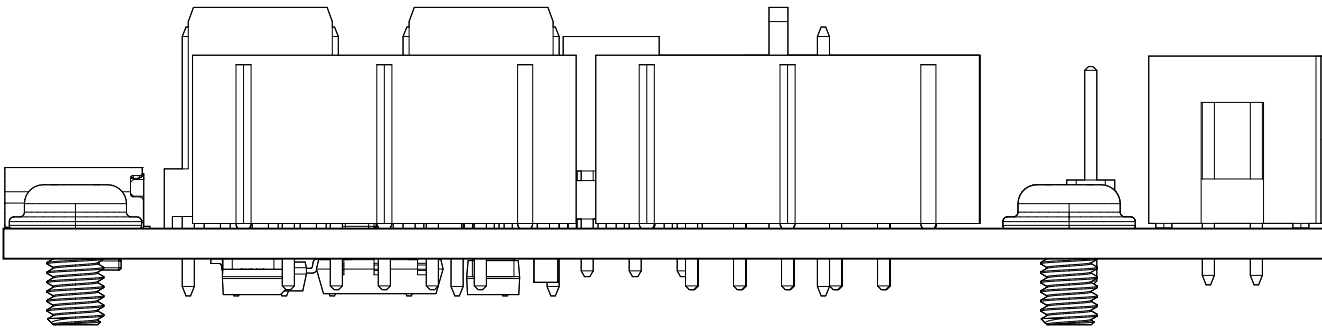
View from Front side (Scale 5:2)
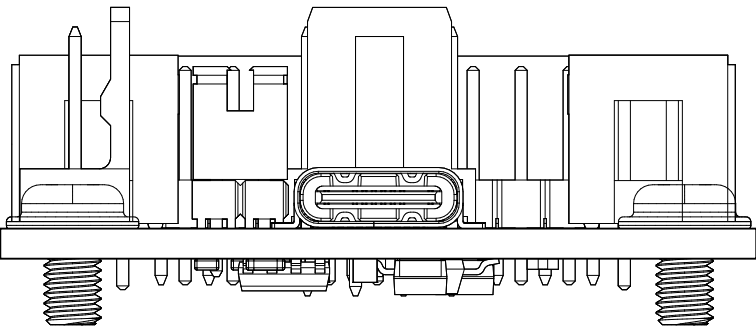
Layer Stack Legend

	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: STLINK Interface	Revision: 1.0	aKaReZa
Company: github.com/aKaReZa75	Sheet 4 of 6	

View from Top side (Scale 5:2)

View from Bottom side (Scale 5:2)

JTAG-20P

2   18   20
1   19

15   9   16

GND
TXD
RXD
rRESET
SWIM
SWDIO
SWO
SWCLK
3V3

10 9

STLINK V3 minie

17

2 1

22

STM8

23

STLINK V2

PROG

10

REG

RXD

12

11

TXD

6

REG 3V3

28

19

UART

CheapPRJ

1 2

20

BLUEPILL

21

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13   8   14

3
2
31
5 26 24 29
7 1 4 30
25
27
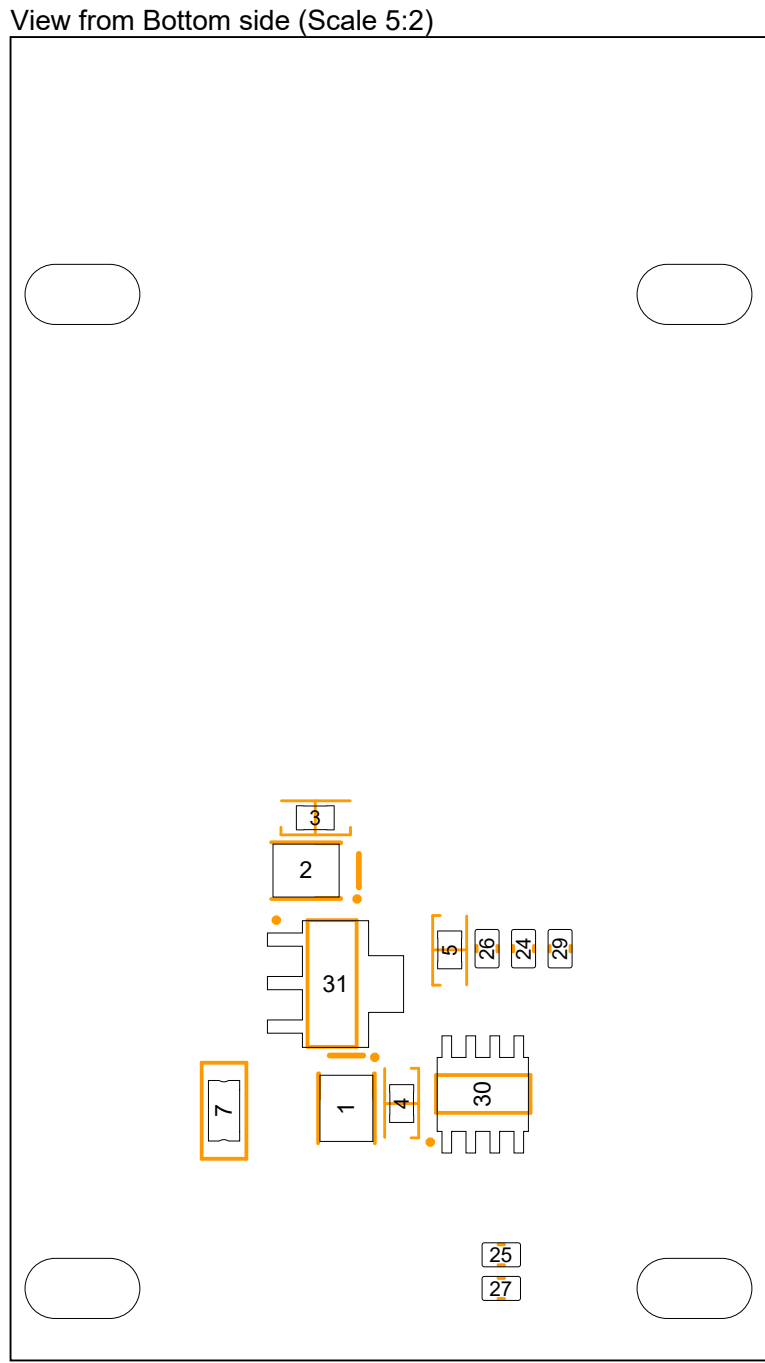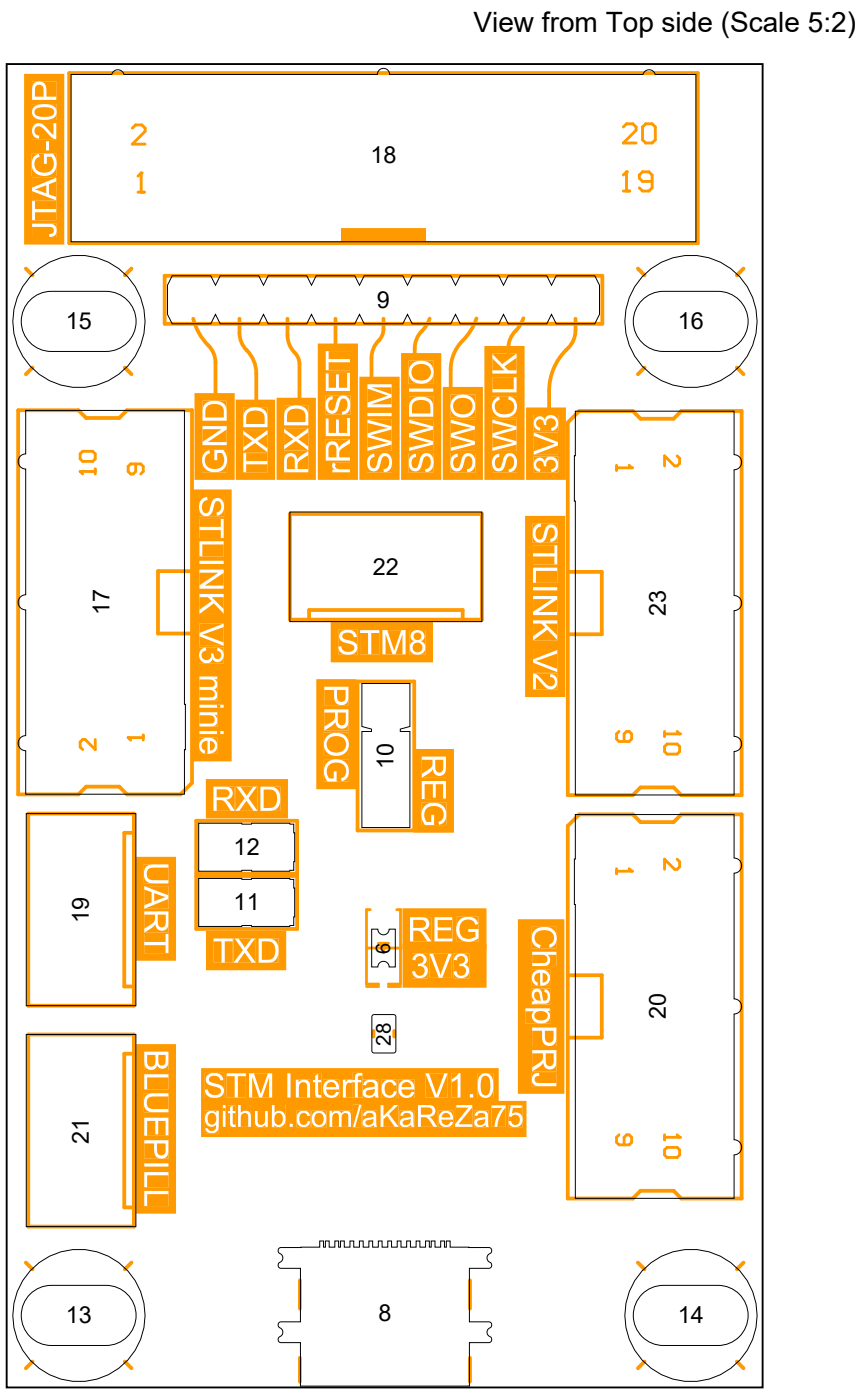
Title: **Component Positions View**	Drawn by:	**Hossein Bagheri**
Project: **STLINK Interface**	Revision: **1.0**	aKaReZa
Company: **github.com/aKaReZa75**	Sheet **5** of **6**	

Bill Of Materials

Line #	Designator	Comment	Library Ref	Footprint	Package	Rating	Type	Value
1	C1	10u	Cap_Tantalum	SMT_C_Tantalum_B	Package?	6.3V	Tantalum	10u
2	C2	10u	Cap_Tantalum	SMT_C_Tantalum_B	Package?	6.3V	Tantalum	10u
3	C3	100n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
4	C4	DS1307	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	100n
5	C5	10n	Cap_Multi_SMD_100nF_0805	CAP 0805/2012	0805	50V	MultiLayer	10n
6	D1	Green	Semi_LED_SMD	LED 0805/2012 GREEN	Package?	Rating?	LED	Green
7	F1	0.25A	Other_Elec_Fuse_SMD	1206_F	1206	Rating?	Fast	0.25A
8	J1	16b	Con_USB_C_16P	USBC_SMD_16_USB4 110 - Extended	SMD	Rating?	C	16b
9	J2	9	Con_MPH_9x1_V_THT_2.54	HDR_THT_9M_2.54mm	Package?	Rating?	Type?	9
10	JP1	0b	SW_Other_JSelector_THT	jumper selector	Dip	Rating?	Selector	0b
11	JP5	2'Pin	SW_Other_Jumper	Jumper Small - 2.54 - GRAY	Package?	Rating?	Type?	2'Pin
12	JP6	2'Pin	SW_Other_Jumper	Jumper Small - 2.54 - GRAY	Package?	Rating?	Type?	2'Pin
13	MP1	M3	Other_Mech_Screw	SCREW-M3	Package?	Rating?	Screw	M3
14	MP2	M3	Other_Mech_Screw	SCREW-M3	Package?	Rating?	Screw	M3
15	MP3	M3	Other_Mech_Screw	SCREW-M3	Package?	Rating?	Screw	M3
16	MP4	M3	Other_Mech_Screw	SCREW-M3	Package?	Rating?	Screw	M3
17	P1	STLinkV3-minie	Con_Prog_STLinkV3_SWD	IDC2.54-10PIN	Package?	Rating?	SWD	STLinkV3-minie
18	P2	JTAG-20P	Con_Prog_aKaReZa_JTAG_20	BOX-HDR-10X2-2.54mm-S	Package?	Rating?	Type?	JTAG-20P
19	P3	UART	Con_UART	MOLEX KK 0022272041	Package?	Rating?	Type?	UART
20	P4	STLINK V2	Con_Prog_CheapProject	IDC2.54-10PIN	Package?	Rating?	SWD	STLINK V2
21	P5	BluePill	Con_Prog_BluePill	MOLEX KK 0022272041	Package?	Rating?	Type?	BluePill
22	P6	STM8	Con_Prog_STM8	MOLEX KK 0022272041	Package?	Rating?	Type?	STM8
23	P7	STLinkV2	Con_Prog_STLinkV2	IDC2.54-10PIN	Package?	Rating?	SWD	STLinkV2
24	R1	560b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	560b
25	R2	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
26	R3	560b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	560b
27	R4	4.7K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	4.7K
28	R5	220b	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	220b
29	R6	1K	Res_SMD_0805	RES 0805 (2012X06L)	0805	0.125W	10%	1K
30	U1	CH340N	IC_Converter_CH340N	SO8_narrow_m	SO-8	Rating?	USB to TTL	CH340N
31	U2	AMS1117-3V3	IC_Reg_AMS1117_3.3	SOT223_M	SOT223	1A	LDO	AMS1117-3V3

Title: **Bill of Materials**

Drawn by:

Hossein Bagheri

Project: **STLINK Interface**

Revision: **1.0**

aKaReZa

Company: **github.com/aKaReZa75**

Sheet **6** of **6**