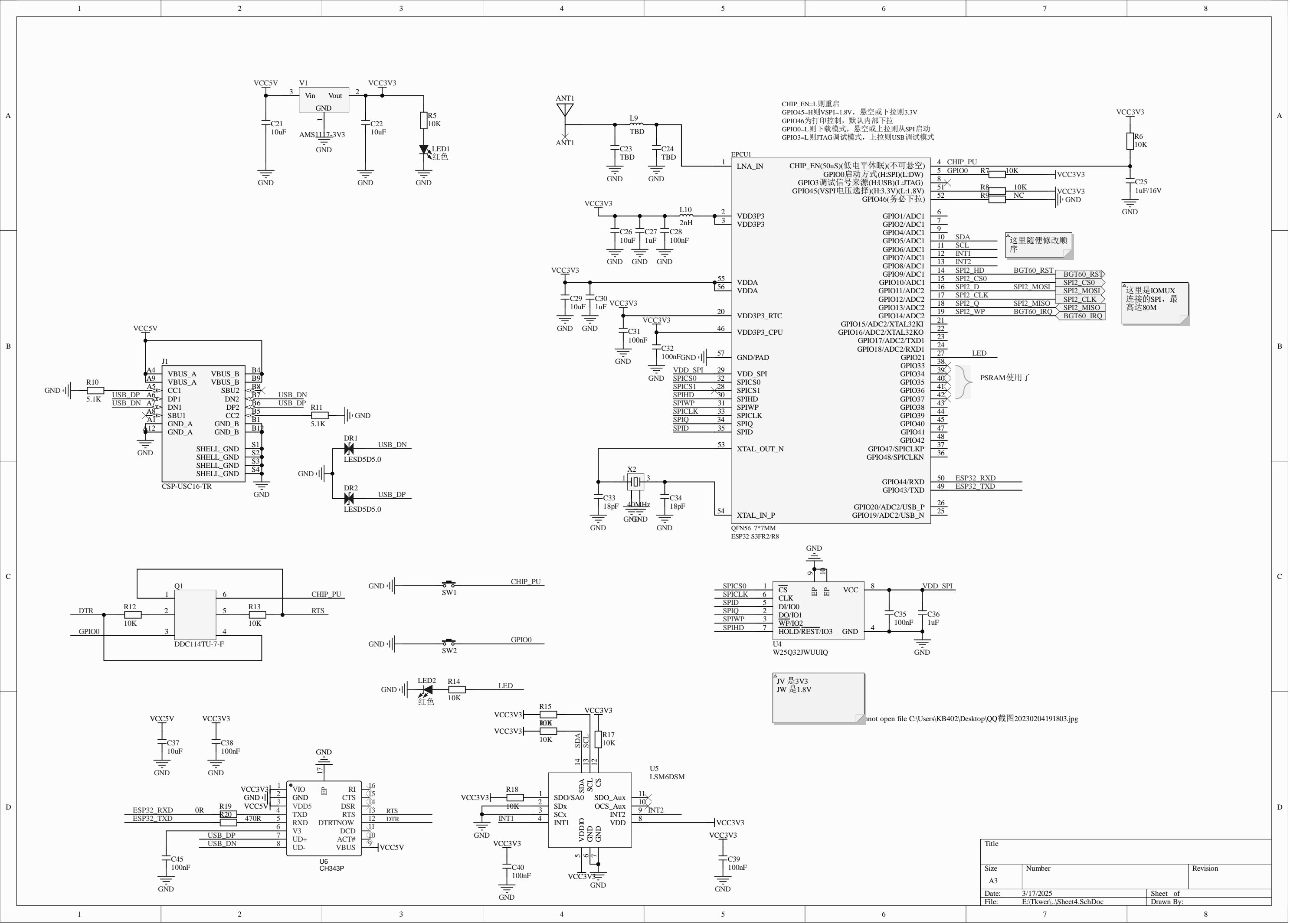
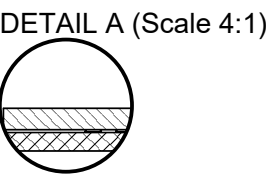
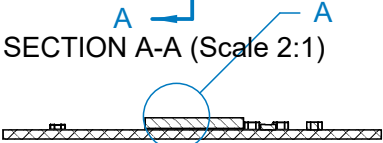
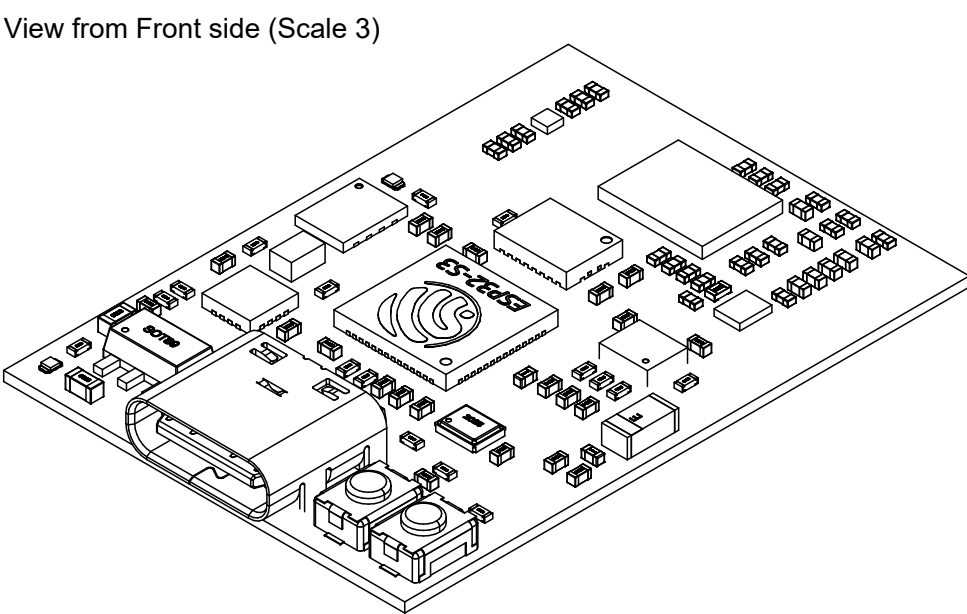
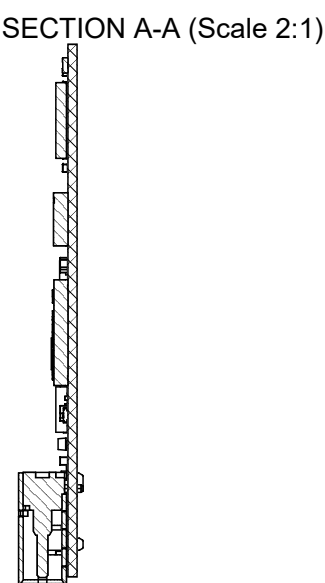
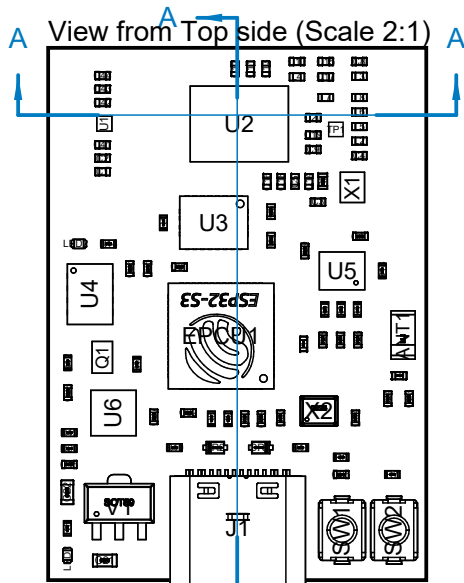


IRQ_1	BGT60_IRQ
SPI_CSN_1	SPI2_CS0
SPI_MOSI_1	SPI2_MOSI
SPI_CLK_1	SPI2_CLK
SPI_MISO_1	SPI2_MISO
RST_1	BGT60_RST

Title		
Size A4	Number	Revision
Date:	3/17/2025	Sheet of
File:	E:\Tkwer\...\Sheet1.SchDoc	Drawn By:



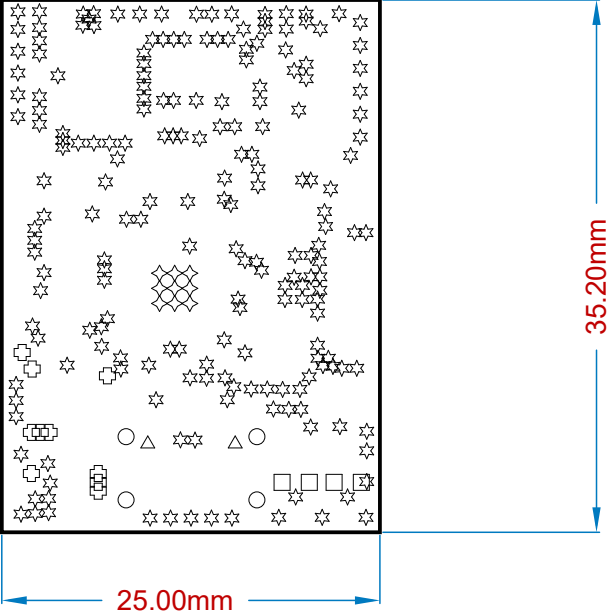


Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material	0.01mm	Solder Resist	Solder Mask	GTS
CF-004	Top Layer	0.04mm		Signal	GTL
Prepreg		0.07mm	PP-006	Dielectric	
Copper	GND02	0.04mm		Internal Plane	GP1
		0.32mm	FR-4	Dielectric	
Copper	PWR03	0.04mm		Signal	G1
Prepreg		0.07mm	PP-006	Dielectric	
CF-004	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 0.62mm

Drill Drawing View (Scale 2:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	4	0.00mm	Non-Plated	
☆	199	0.20mm	Plated	
⊕	10	0.30mm	Plated	
◇	9	0.30mm	Plated	
△	2	0.65mm	Non-Plated	
○	4	0.65mm	Plated	
	228 Total			

Bill Of Materials

Line #	Designator	Comment	Quantity
1	ANT1	ANT1	1
2	C1, C2, C8, C10, C11, C15, C43, C44	10μF	8
3	C3	10nF	1
4	C4, C9, C12, C13, C14, C16, C18, C19, C20	1μF	9
5	C5	470nF	1
6	C6, C7	0.1uF	2
7	C17, C41, C42	100nF	3
8	C21, C22, C26, C29, C37	10uF	5
9	C23, C24	TBD	2
10	C25	1uF/16V	1
11	C27, C30, C36	1uF	3
12	C28, C31, C32, C35, C38, C39, C40, C45	100nF	8
13	C33, C34	18pF	2
14	DR1, DR2	LESD5D5.0	2
15	EPCU1	ESP32-S3FR2/R8	1
16	J1	CSP-USC16-TR	1
17	L2, L3, L5, L6, L7	MMZ1005B601CT000	5
18	L4, L8	MMZ1005S121CT000	2
19	L9	TBD	1
20	L10	2nH	1
21	LED1, LED2	□□	2
22	Q1	DDC114TU-7-F	1
23	R3	150R	1
24	R4, R5, R6, R7, R8, R12, R13, R14, R15, R16, R17, R18	10K	12
25	R9	NC	1
26	R10, R11	5.1K	2
27	R19	0R	1
28	R20	470R	1
29	SW1, SW2	3x6x5	2
30	U1	NCP163AMX180TBG	1
31	U2	BGT60TR13C	1
32	U3	TXB0108RGYR	1
33	U4	W25Q32JWUUIQ	1
34	U5	LSM6DSM	1
35	U6	CH343P	1
36	V1	AMS1117-3V3	1
37	X1	KC2016 80MHz	1
38	X2	40MHz	1

A

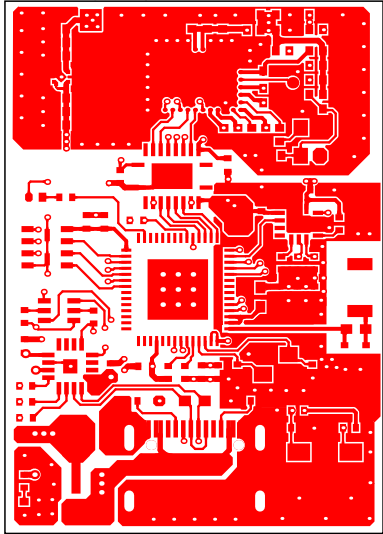
B

C

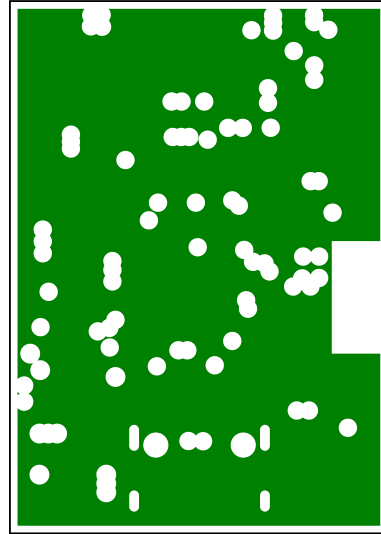
D

E

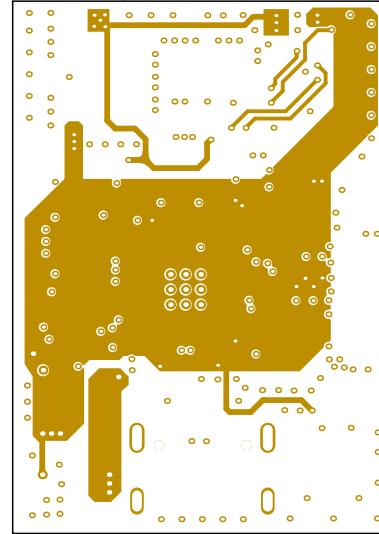
Top Layer (Scale 2:1)



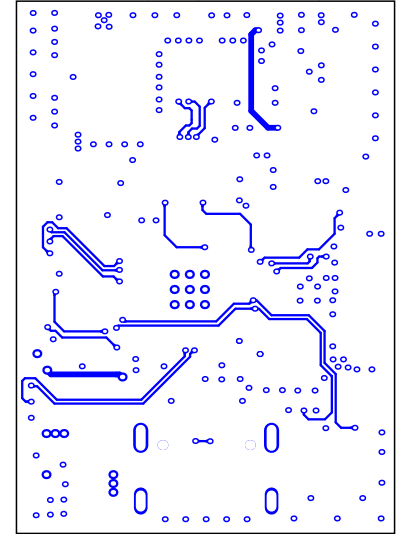
GND02 (Scale 2:1)



PWR03 (Scale 2:1)



Bottom Layer (Scale 2:1)



A

B

C

D

E

1

1

2

2

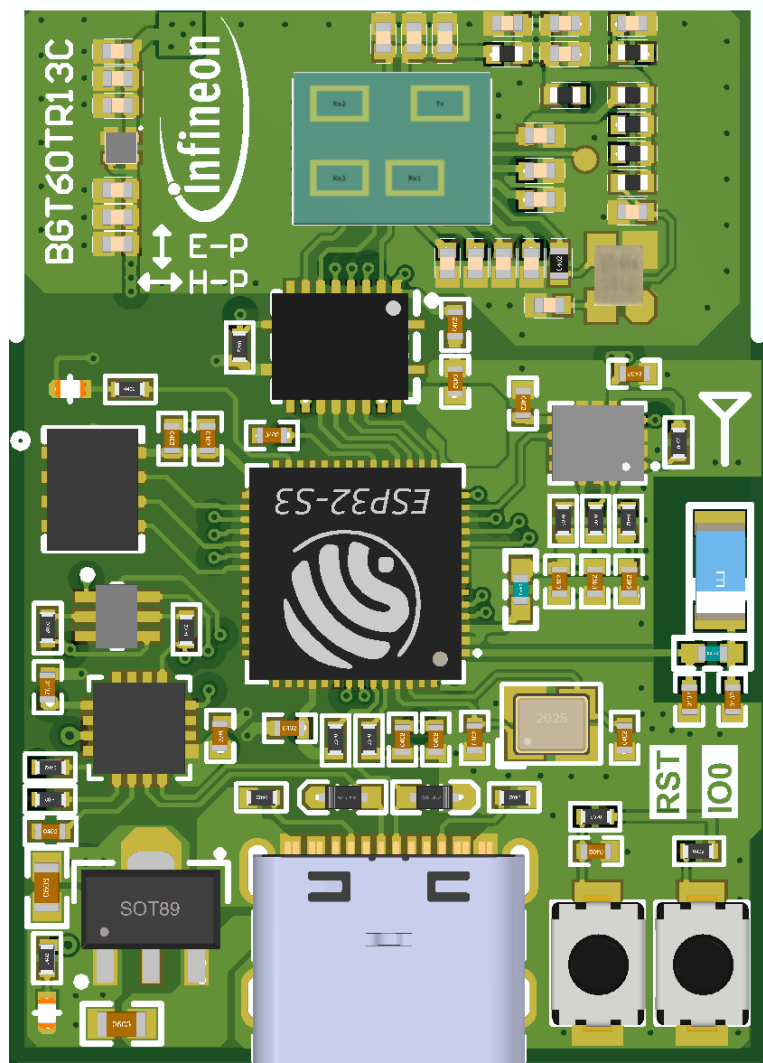
3

3

4

4

Realistic View



Realistic View

