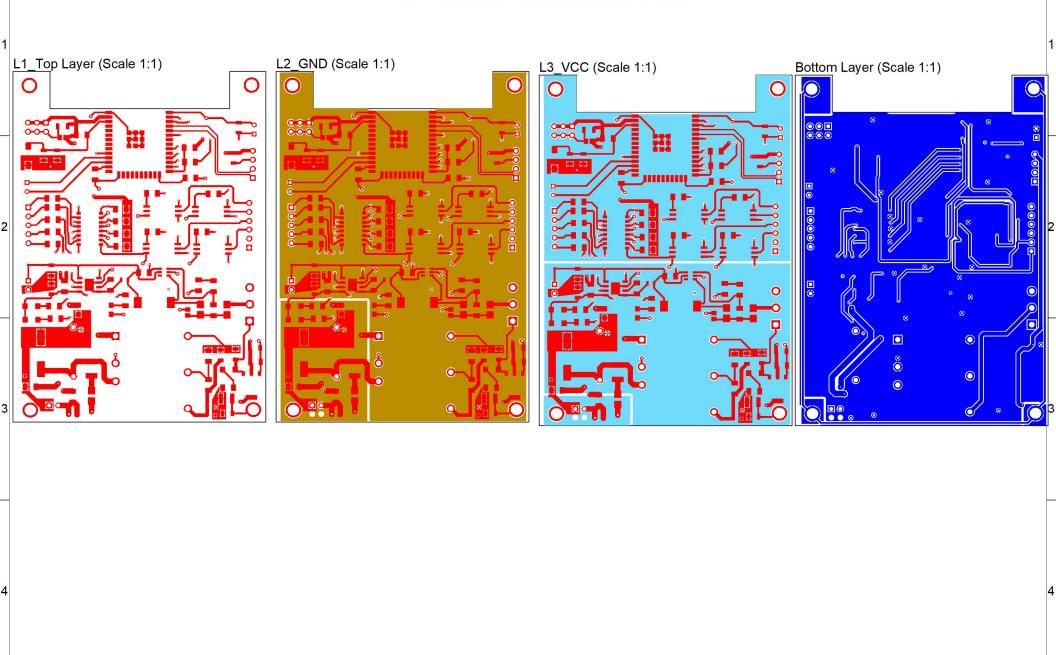
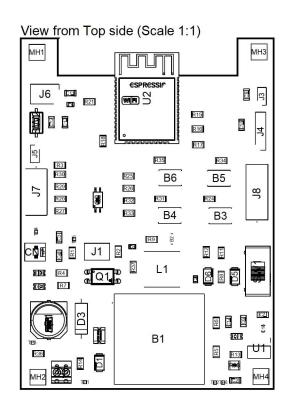
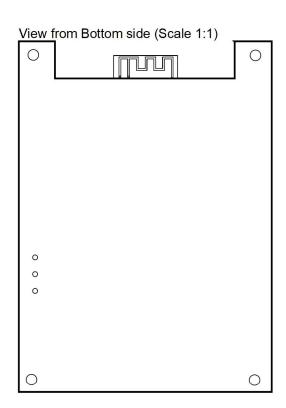
IoT Board Fabrication View

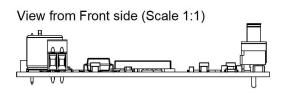


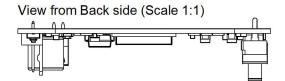
IoT Board Fabrication View Top Paste (Scale 1:1) Top Overlay (Scale 1:1) Top Assembly (Scale 1:1) Bottom Overlay (Scale 1:1) 110 0.00 BIT Product Innovation Centre - Embedded BEN ₹○ Ö C2 O

IoT Board Assembly View





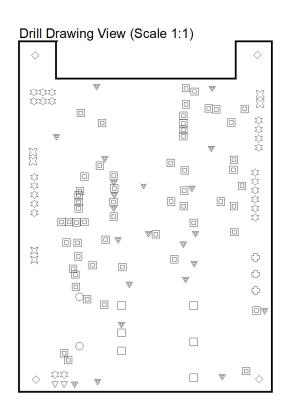




IoT Board Drill Details

Drill Table

Dilli Table								
Symbol	Count	Hole Size	Plated	Hole Tolerance				
	56	0.30mm	Plated					
▽	22	0.51mm	Plated					
\bowtie	4	0.90mm	Plated					
Ħ	2	1.00mm	Plated					
∇	2	1.10mm	Non-Plated					
\$3	23	1.10mm	Plated					
0	2	1.30mm	Plated					
	6	1.50mm	Plated					
¢	3	1.60mm	Plated					
\Diamond	4	3.20mm	Plated					
	124 Total							



IoT Board Layer Stackup

Laye	er Stack Legend						
		Material	Layer	Thickness	Dielectric Material	Туре	Gerber
		-	Top Overlay			Legend	GTO
	V////////	- Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
		Copper	L1_Top Layer	0.04mm		Signal	GTL
		Core		0.07mm	FR-4	Dielectric	
		Copper	L2_GND	0.04mm		Signal	G1
		- Prepreg		1.00mm		Dielectric	
777			10.400			o	
		- Copper	L3_VCC	0.04mm		Signal	G2
		- Core		0.07mm	FR-4	Dielectric	
		- Copper	Bottom Layer	0.04mm		Signal	GBL
		- Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
			Bottom Overlay			Legend	GBO
		Total thickness: 1	.31mm				

A C D D

IoT Board BOM

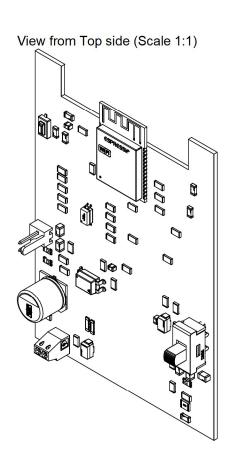
Bill Of Materials

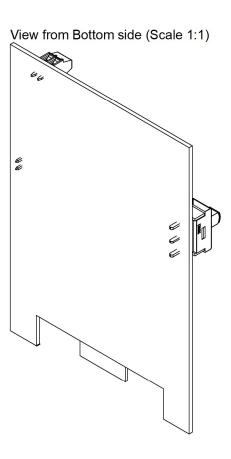
Line #	Designator	Name	Quantity	
	B1	URB2405YMD-20WR3	1	
	B2	MT3608	1	
B3, B4, B5, B6		FOD8314	4	
	C1	HHXC500ARA101MJA0G	1	
	C2, C9, C11, C12, C13, C15	C1206C104K5RACTU_220 pF, C1206C104K5RACTU_0.1u F	6	
	C3, C4, C6, C7, C14	GRT31CR61H106ME01L_1 Ouf	5	
	C5	0805_22uF10V	1	
	C8, C10	GRM21BR61E226ME44L_2 2uF	2	
	C16	TCA1A226M8R	1	
	CN1	61900211121	1	
	D1, D5, D6	1N4007 SMD	3	
	D2, D7, DS1	LTST-C230KRKT	3	
	D3	P6KE36ARLG	1	
	J1	TP4056	1	
	J2	1725656	1	
	J3, J5	XG8T-0231	2	
	J4	PH1-04-UA	1	
	J6	PH2-06-UA	1	
	J7	1725685	1	
	J8	1725698	1	
	L1	CDRH104RNP-220NC_22u H	1	
	PTC_F1	0ZCG0050AF2C	1	
	Q1	FOD817D3SD	1	
	Q2	TLP290-4(TP,E	1	
	R1, R2, R3, R4, R5, R6, R7, R8, R9, R11, R12, R13, R14, R15, R16, R17, R18, R21, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37	Resistor 0R +/- 5% 1206 250 mW	32	
	R38	1M_SHLD	1	
	SW1	CS12ANW03	1	
	SW2	CPU_RST_SW	1	
	TP1, TP2, TP3, TP4, TP5, TP6	Test Point	6	
	U1	ams1117-3.3v	1	
	U2	ESP32-WROOM-32D	1	

2

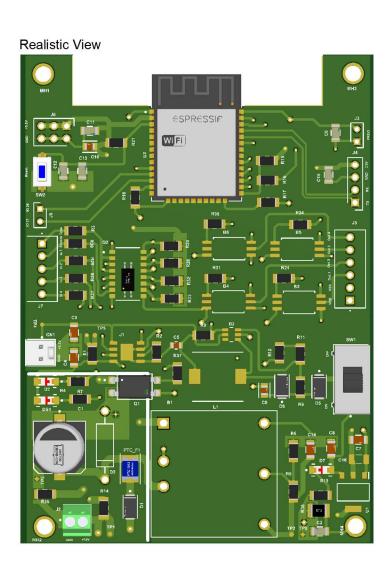
B C D

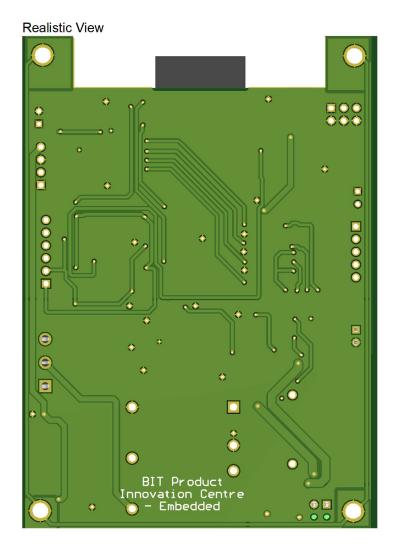
IoT Board Isometric View





IoT Board Realistic 3D View





1

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3

B C D