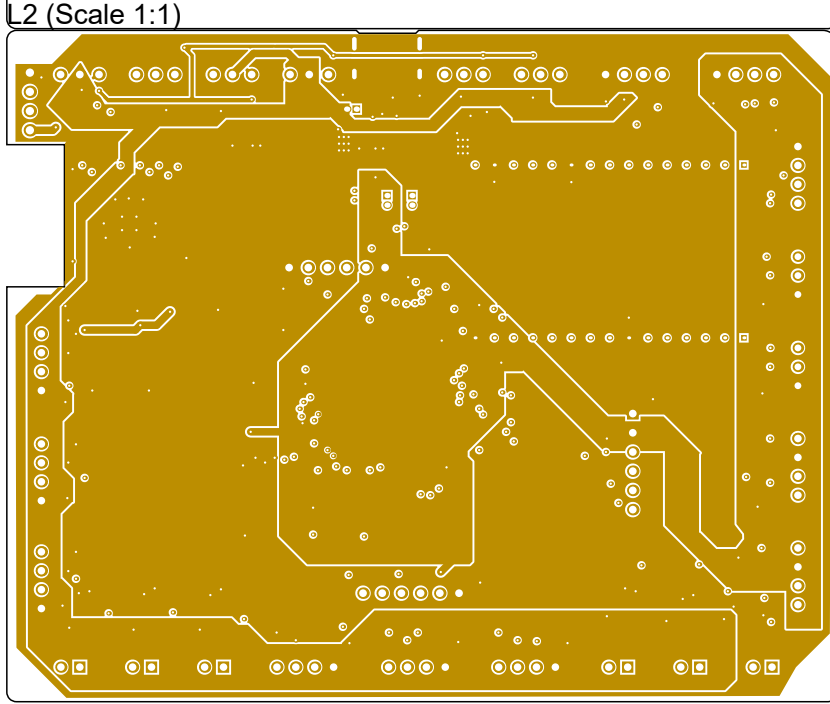
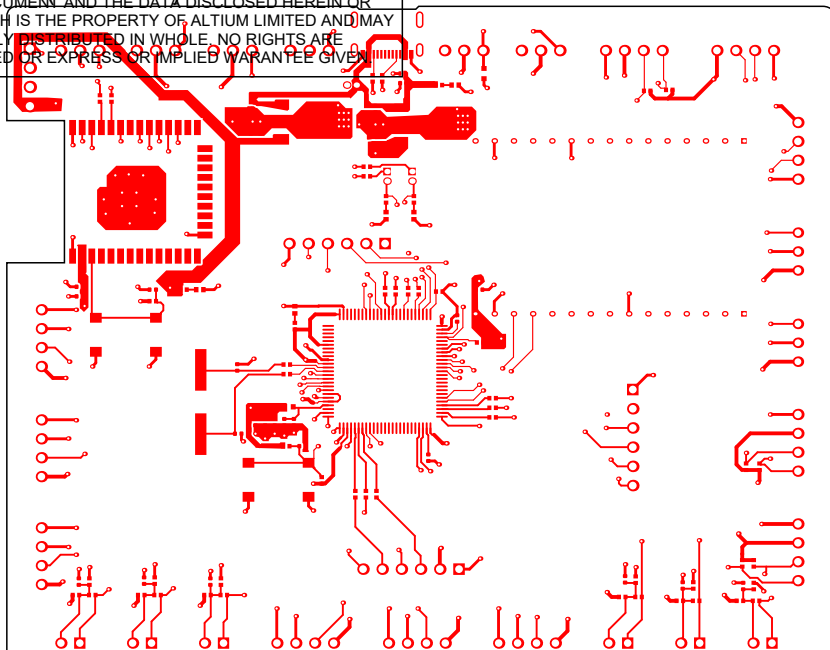
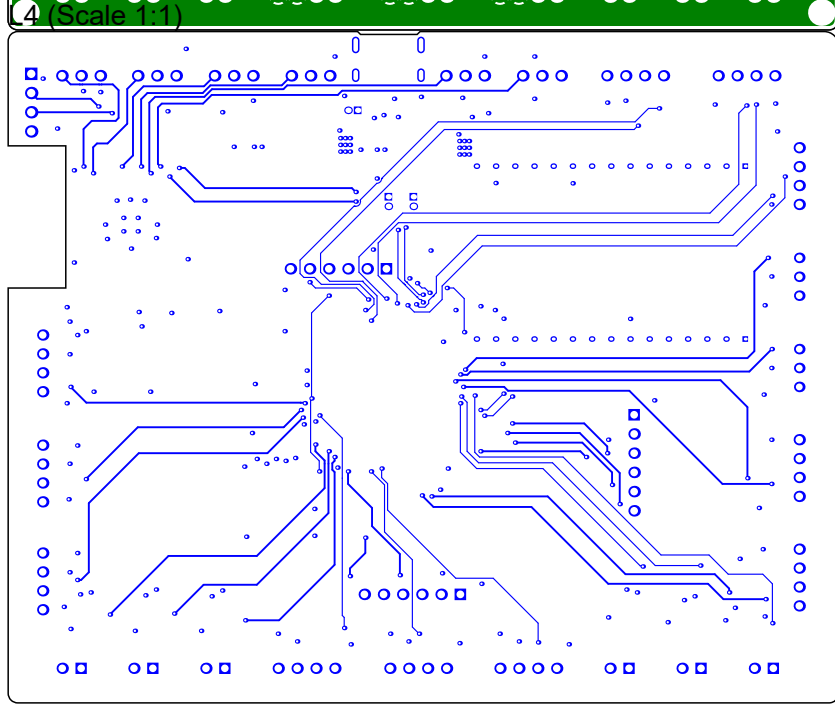
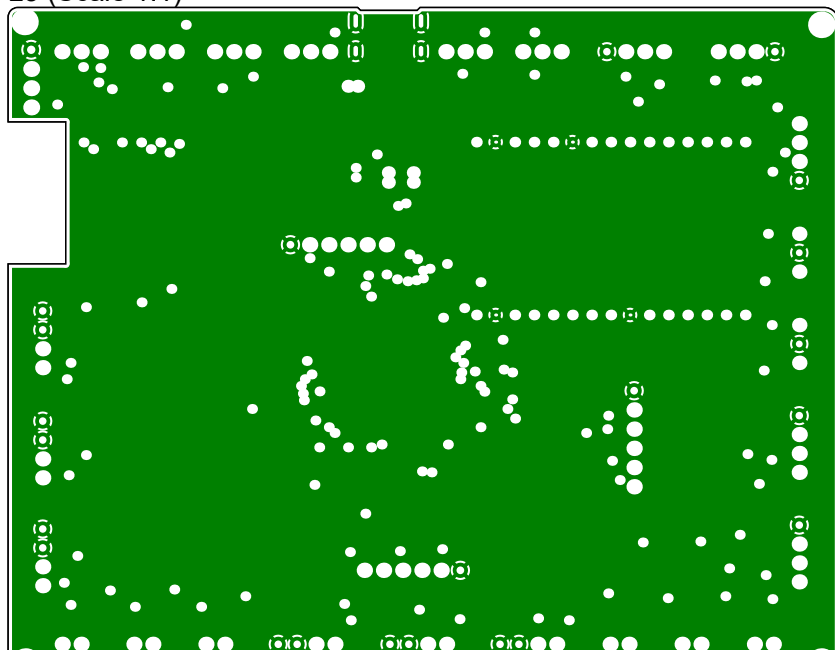




THIS DOCUMENT AND THE DATA DISCLOSED HEREIN OR  
HEREWITH IS THE PROPERTY OF ALTIUM LIMITED AND MAY  
BE FREELY DISTRIBUTED IN WHOLE. NO RIGHTS ARE  
RESERVED OR EXPRESS OR IMPLIED WARRANTY GIVEN

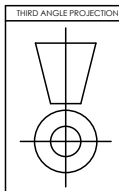



### Layer Stack Legend

[illegible]

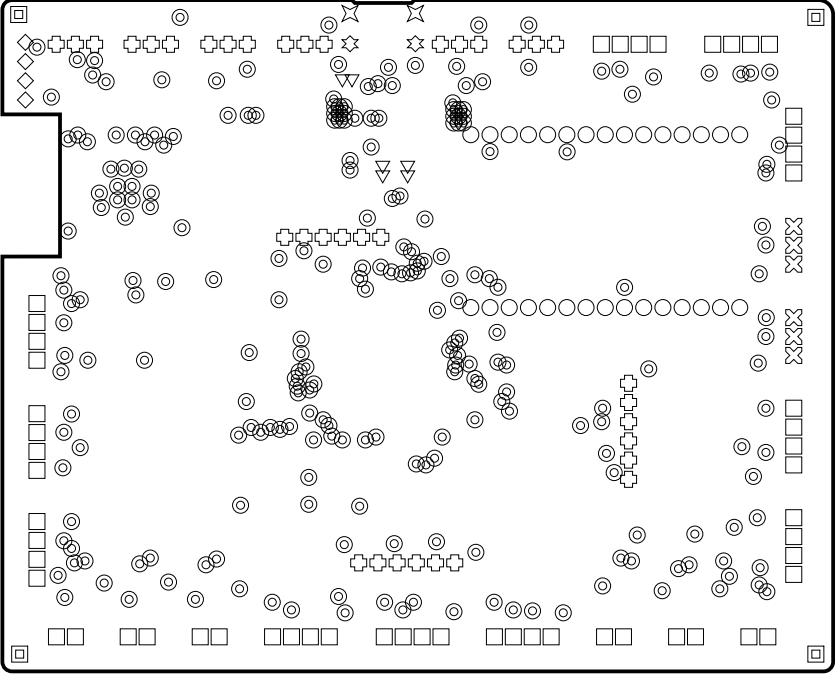
## Bill Of Materials

Line #	Designator	Comment	Quantity
1	C1, C2, C3, C4, C5, C6, C9, C11, C12, C14, C18	10uF, 10V	11
2	C7, C19, C27, C28, C31	100nF, 50V	5
3	C8, C21, C25, C26	100nF, 10v	4
4	C10, C13	4u7, 16V	2
5	C17, C29, C30	1uF, 35V	3
6	C23, C24	20pF 50V	2
7	D1	AQ3045-01ETG	1
8	D2, D3, D4	RED	3
9	D5, D6	GREEN	2
10	FB1, FB2	BLM18EG601SN1D	2
11	J1, J2, J3, J4, J5, J6	B2B-XH-A-GU	6
12	J7, J8, J13, J14, J15, J16, J17, J20, J23, J26, J31	B4B-XH-A_LF__SN_	11
13	J9, J10	RA-08H-KIT	2
14	J11	217179-0001	1
15	J12, J34, J35	FTS-102-01-F-S	3
16	J18, J21, J24, J25, J27, J29	TSW-103-07-F-S	6
17	J19, J22	B3B-XH-A_LF__SN_	2
18	J28	TSW-104-07-F-S	1
19	J30, J32, J33	TSW-106-07-F-S	3
20	R1, R2, R3, R4, R5, R6, R48, R49, R50, R51, R52, R53	27R	12
21	R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R31, R32, R33, R45, R46	10K	17
22	R19, R20, R21, R22, R34, R35, R36, R43, R44	0R	9
23	R23, R24	5K1	2
24	R25, R26, R27, R28, R29, R30	4K7	6
25	R37	220R	1
26	R38, R39, R40, R41, R42	1K	5
27	SW1	PTS645SH50SMTR92LFS	1
28	SW3	PTS645SH50SMTR92LFS	1
29	U1	STM32F407VGT6_LQFP100	1
30	U2	ESP32-WROOM-32E-N16	1
31	U3, U4	TL1963A-33DCYR	2
32	Y1	ATS08ASM-1E	1



PART NO: =PCB_PART_NUMBER			
APPROVALS		DATE	
ENGINEER: =PCB_ENGINEER	=PCB_ENGINEER		
DESIGNER: =PCB_DESIGNER	=PCB_DESIGNER		
CHECKER: =PCB_CHECKER	=PCB_CHECKER		
Reference Documents			
BOM DOC: =DOC_NO_BOM		DESIGN ITEM: .Item	
ASSY DOC: =DOC_NO_FAB_DWG		DESIGN ITEM REVISION: .ItemRevision	
SCH DOC: =DOC_NO_SCH_DWG		TITLE: =PCB_TITLE_1	
PCB DOC: =PCB_DWG_NO		=PCB_TITLE_2	
SIZE: A3		CAGE CODE: =CAGE_CO	REV:
SCALE:		FILE NAME: PCBdraft.PCBdwf	SHEET: 1 OF 1

Drill Drawing View (Scale 1:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
⊙	247	0.30mm	Plated	
○	30	0.40mm	Plated	
▽	6	0.71mm	Plated	
⊗	6	0.90mm	Plated	
□	56	1.00mm	Plated	
⊕	36	1.02mm	Plated	
◇	4	1.10mm	Plated	
☆	2	1.40mm	Plated	
✧	2	1.80mm	Plated	
⊠	4	2.50mm	Non-Plated	
393 Total				