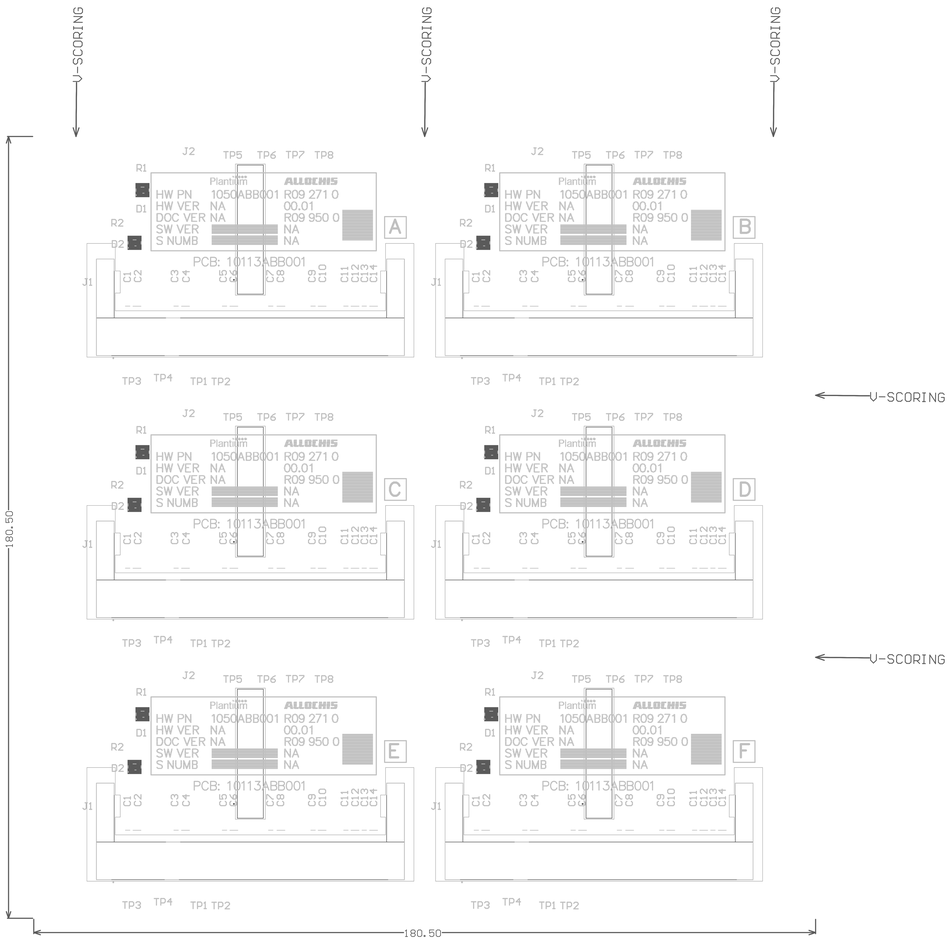
REVISIONS HISTORY				
VERSION	DESCRIPTION	DRAWN	APPROVED	DATE
0.0.1	Baby Board – ALLOCHIS isoBUS	LE	GS	16–Jun–23

FABRICATION NOTES:

1. FABRICATE BOARD IN ACCORDANCE WITH IPC–2221 CLASS 2, LEVEL B. OTHER APPLICABLE STANDARDS AND SPECIFICATIONS: IPC–A–22, IPC–T–50, IPC–L–109. INTERPRET ALL DIMENSIONS IN ACCORDANCE WITH ANSI–Y14.5.
2. PRODUCIBILITY: BOARD FABRICATOR HAS THE RESPONSIBILITY TO CONDUCT A REVIEW OF THE FILES AND/OR MEDIA FOR MANUFACTURABILITY IN THEIR PROCESS AND CONFORMANCE TO ALL APPLICABLE SPECIFICATIONS. PLANTIUM MUST BE ADVISED IN WRITING (IN ADVANCE OF CHANGES, REVISIONS OR CORRECTIONS MADE OR RECOMMENDATIONS TO ENSURE CONFORMANCE TOMANUFACTURE) OF ANY SPECIFIED STANDARDS, AND OF ANY SPECIFICATIONS THAT CANNOT BE MET.
3. CORE MATERIAL: LAMINATE GLASS FIBER EPOXY, FLAME RETARDENT PER IPC–4101 TYPE GF 140 or 170 DEGREE Tg SIZE AND CONSTRUCTION IN ACCORDANCE WITH SECTION A–A. 1 OR 2 OZ COPPER ON EXTERNAL AND 1 OR 2 OZ ON INTERNAL LAYERS PLATED.
4. BONDING MATERIAL: PREPREG (B–STAGE) TYPE GF PER IPC–4101.
5. APPLY FABRICATION ID AND/OR LOGO, UL MARKING AND DATE CODE, 4 DIGITS WEEK/YEAR IN SILKSCREEN ONLY IN CLEAR AREA OF THE BOARD, AT LEAST 50MILS AWAY FROM ANY FEATURE, ON EITHER THE PRIMARY OR SECONDARY SIDE OF PCB.
6. BOARD CONSTRUCTION: SOLDER MASK OVER BARE COPPER (SMOBC) USING LIQUID PHOTOIMAGEABLE MATERIAL (LPI). APPLY TO BOTH EXTERNAL LAYERS IN ACCORDANCE WITH IPC–SM–840. USE APPROPRIATE SOLDER MASK ARTWORK FOR EACH SIDE OF BOARD.
7. SOLDER MASK MISREGISTRATION SHALL NOT EXCEED +/–0.002 INCH. SOLDER MASK OVERLAP IS PERMITTED ON ALL CIRCULAR LANDS BUT SHALL NOT EXCEED 0.001 IN. NO SOLDER MASK MATERIAL PERMISSIBLE ON SMD LAND PATTERNS.
8. SOLDER MASK THICKNESS 0.0004 IN. MIN. / 0.002 IN. MAX LPI SOLDER MASK MATERIAL IS TO BE DARK GREEN IN COLOR GLOSS FINISH AND HIGHLY TRANSPARENT.
9. DRILL BOARDS USING N/C DRILL DATA AND HOLE SCHEDULE ON FABRICATION DRAWING. NO BREAKOUT PERMISSIBLE.
10. ALL HOLES ARE PLATED–THROUGH UNLESS OTHERWISE NOTED. MINIMUM COPPER PLATING IN PLATED HOLES TO BE 0.001 INCH.
11. MINIMUM ANNULAR RING 0.006 IN. NO BREAKOUT PERMISSIBLE.
12. PCB FINISH IS ELECTROLESS NICKEL IMMERSION GOLD (ENIG).
13. FINISHED LINE WIDTH TOLERANCE IS +/– 20%.
14. MINIMUM FINISHED SPACING TO BE 0.005 IN.
15. DIMENSIONS ARE AFTER ETCHING AND PLATING AND ARE BASIC UNLESS OTHERWISE NOTED. TOLERANCES ARE NON–CUMULATIVE.
16. BOW AND TWIST SHALL NOT EXCEED 0.75%.
17. SILKSCREEN TOP SIDE OF BOARD USING NON–CONDUCTIVE, WHITE EPOXY BASE INK. USE APPROPRIATE ARTWORK FOR EACH SIDE.
18. LAYER TO LAYER REGISTRATION TO BE +/– 0.005 INCH NON–CUMULATIVE.
19. LAYER CONFIGURATION: SEE DETAIL A–A ; FINISHED BOARD THICKNESS: SEE DETAIL A–A.
20. FINISHED BOARD TO CONFORM TO IPC–A–600.
21. ALL FILM (ARTWORK) EITHER PROVIDED BY PLANTIUM OR GENERATED BY VENDOR ARE TO BE DELIVERED WITH FINISHED BOARDS.
22. ELECTRICAL TEST: ALL BOARDS SHALL BE 100% ELECTRICALLY TESTED FOR OPENS (GREATER THAN 1 OHM) WITH A TEST CURRENT OF 0.01 AMPS. SHORTS (LESS THAN 1 MEGOHMS) WITH A TEST VOLTAGE OF 10.0 VOLTS.
23. VENDOR WILL PROVIDE APPROPRIATE QUALITY COMPLIANCE.
24. DESIGNED IN FABRICATION ALLOWANCE IS 0.001 INCH.
25. THE FIDUCIALS SHOULD BE VISIBLE ON THE PASTE SCREEN.
26. THIS IS A NOT CONTROLLED IMPEDANCE PCB: CAN lines, etc, trace length < 2000 mils, USB components not populated
27. CAN ALTER INDIVIDIAL LAYER THICKNESS. ENSURE PCB BALANCE AND FINISHED PCB DIMINSION AS INDICATED.
28. STENCIL THICKNESS IS 4 MILS.

LAMINATION DETAIL Section A–A

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.013mm	3.5	
3	Top Layer	Copper	0.035mm		
4	Dielectric 1	7628	0.195mm	4.2	
5	VCC3V3	Copper	0.035mm		
6	Dielectric 2	FR–4	1.050mm	4.2	
7	GND	Copper	0.035mm		
8	Dielectric 3	7628	0.195mm	4.2	
9	Bottom Layer	Copper	0.035mm		
10	Bottom Solder	Solder Resist	0.013mm	3.5	
11	Bottom Overlay				



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UNLESS OTHERWISE SPECIFIED:
– DIMENSIONS ARE IN MILLIMETERS
– REMOVE ALL BURRS & BREAK SHARP EDGES
– TOLERANCE ON:

DECIMALS:	FRACTIONS:	ANGLES:
X .02	1/64	1
XX .01		63
XXX .005		

MATERIAL: (SEE NOTES)

FINISH: (SEE NOTES)

PLANTIUM®
San Luis 279
Villa Constitucion, Santa Fe, CP 2919
PHONE (03400) 47–4199

TITLE: ADAPTER BOARD
Top Silkscreen Overlay

PART NUMBER: 10113AAB001
VERSION: 0.0.1

FILENAME: ALLOCHIS_ADAPTER_panelizado_v1.0.PcbDoc

DRILL DRAWING

REVISIONS HISTORY				
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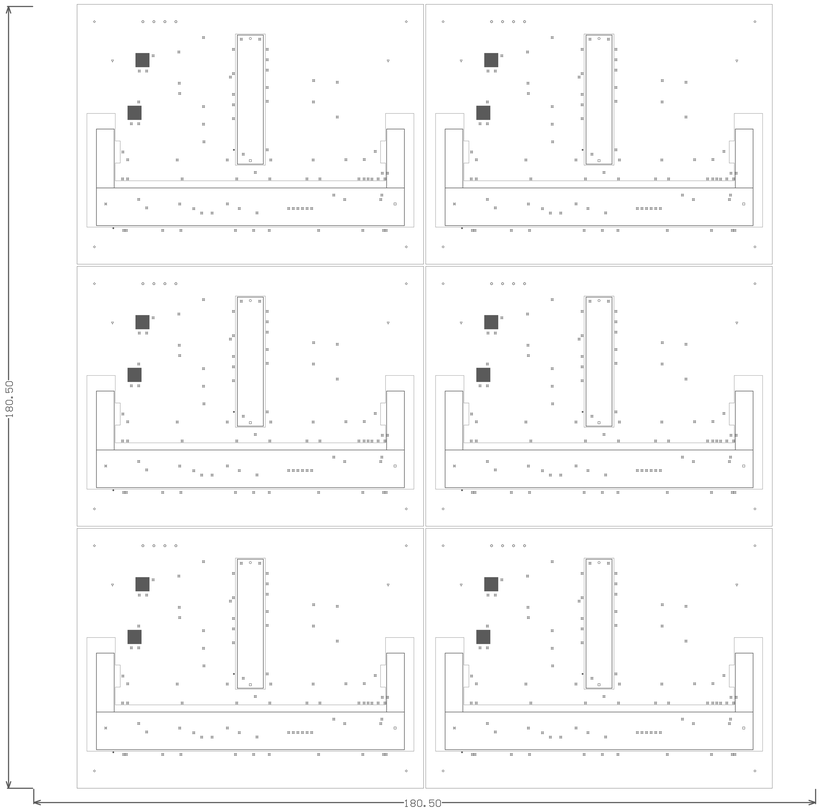
0.0.1	Baby Board – ALLOCHIS isoBUS	LE	GS	16–Jun–23

Symbol	Count	Hole Size	Plated
○	6	0.800mm (31.50mil)	NPTH
⌑	6	1.700mm (66.93mil)	NPTH
□	12	1.200mm (47.24mil)	NPTH
▽	12	3.000mm (118.11mil)	NPTH
⌖	24	0.900mm (35.43mil)	PTH
◇	24	3.000mm (118.11mil)	PTH
⊠	522	0.254mm (10.00mil)	PTH
	606 Total		



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MATERIAL: (SEE NOTES)

FINISH: (SEE NOTES)

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San Luis 279
Villa Constitucion, Santa Fe, CP 2919
PHONE (03400) 47–4199

TITLE: ADAPTER BOARD
Drill Drawing

PART NUMBER: 10113AAB001

VERSION: 0.0.1

FILENAME: ALLOCHIS_ADAPTER_panelizado_v1.0.PcbDoc

DRILL GUIDE

REVISIONS HISTORY				
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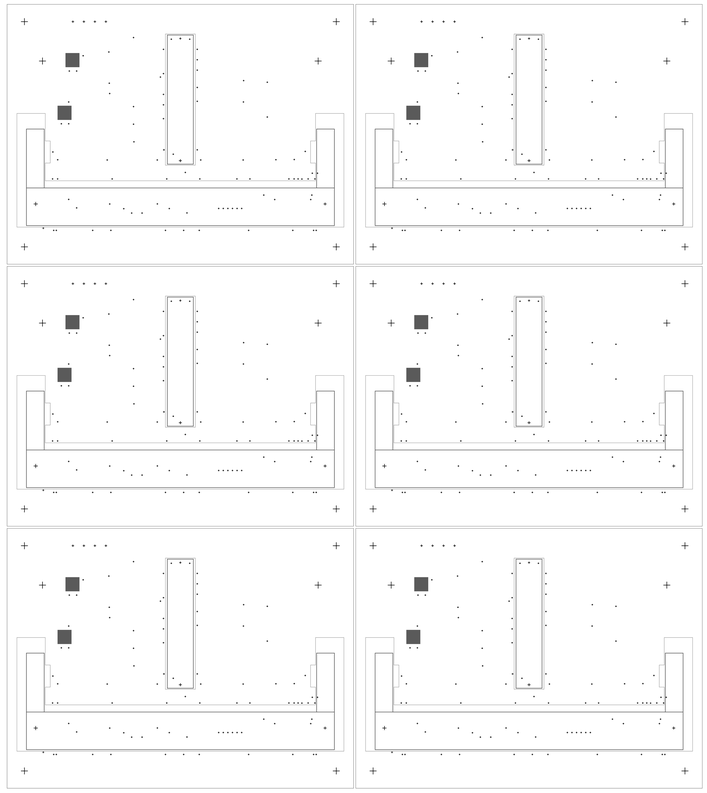

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