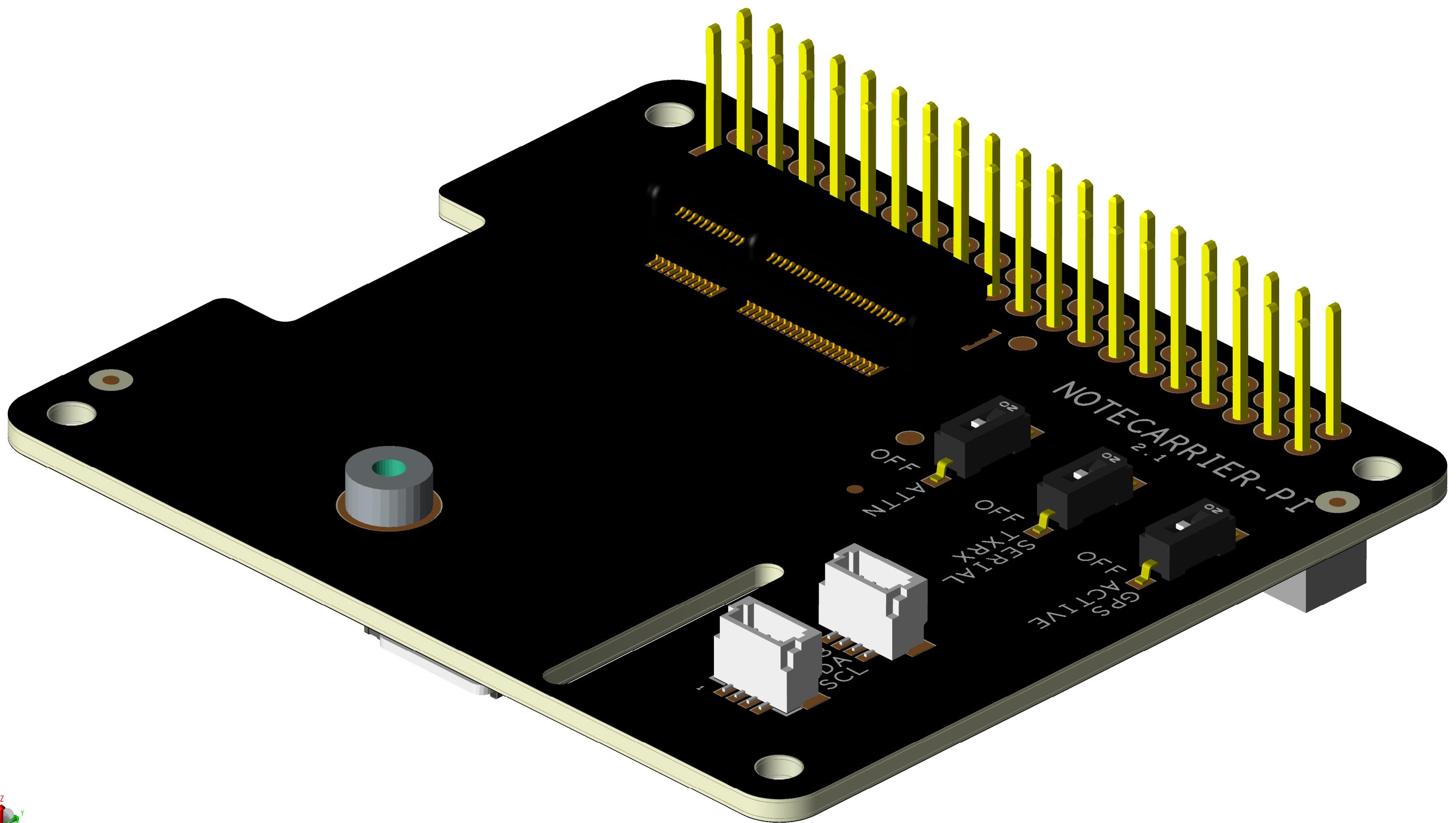
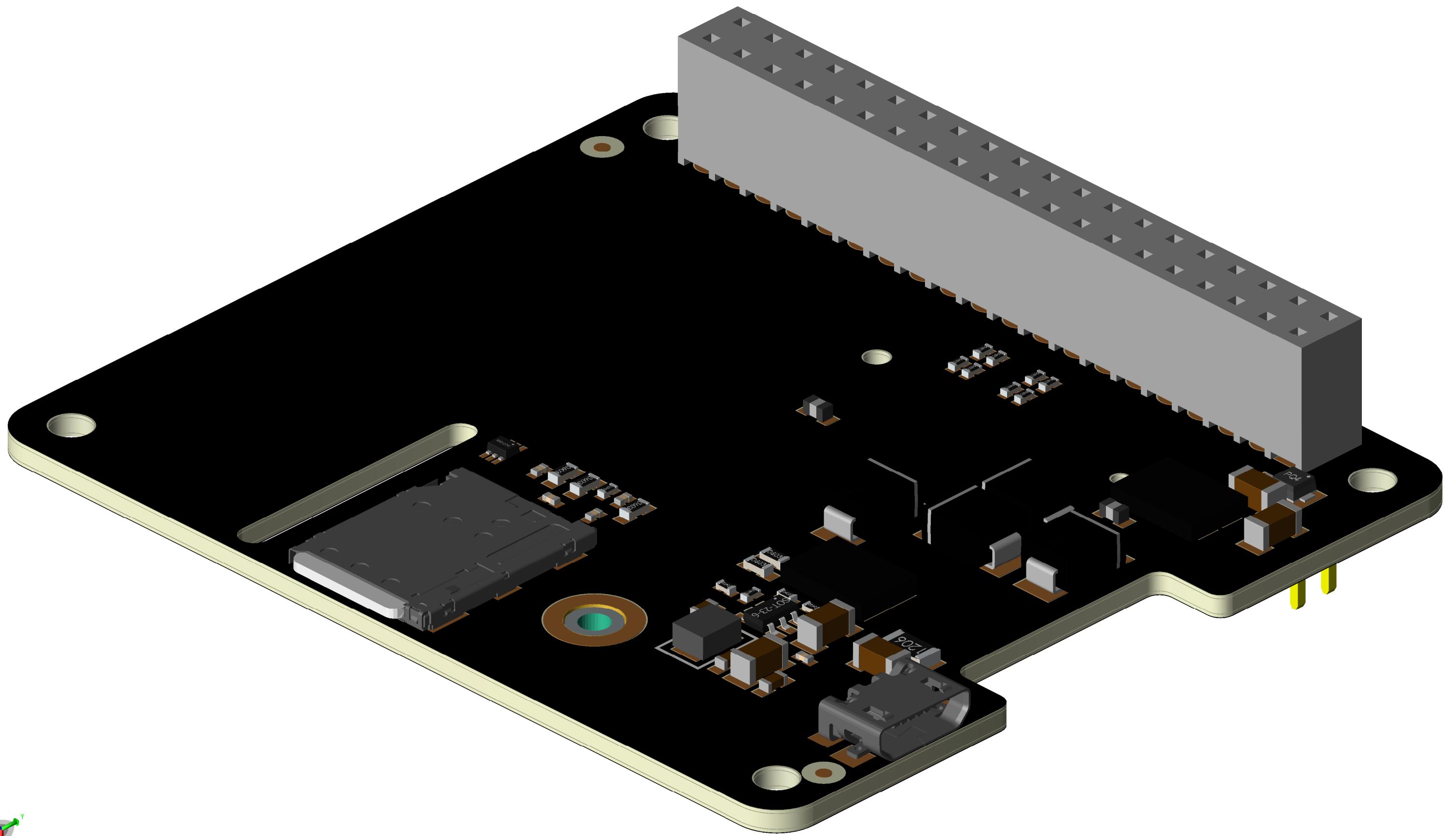


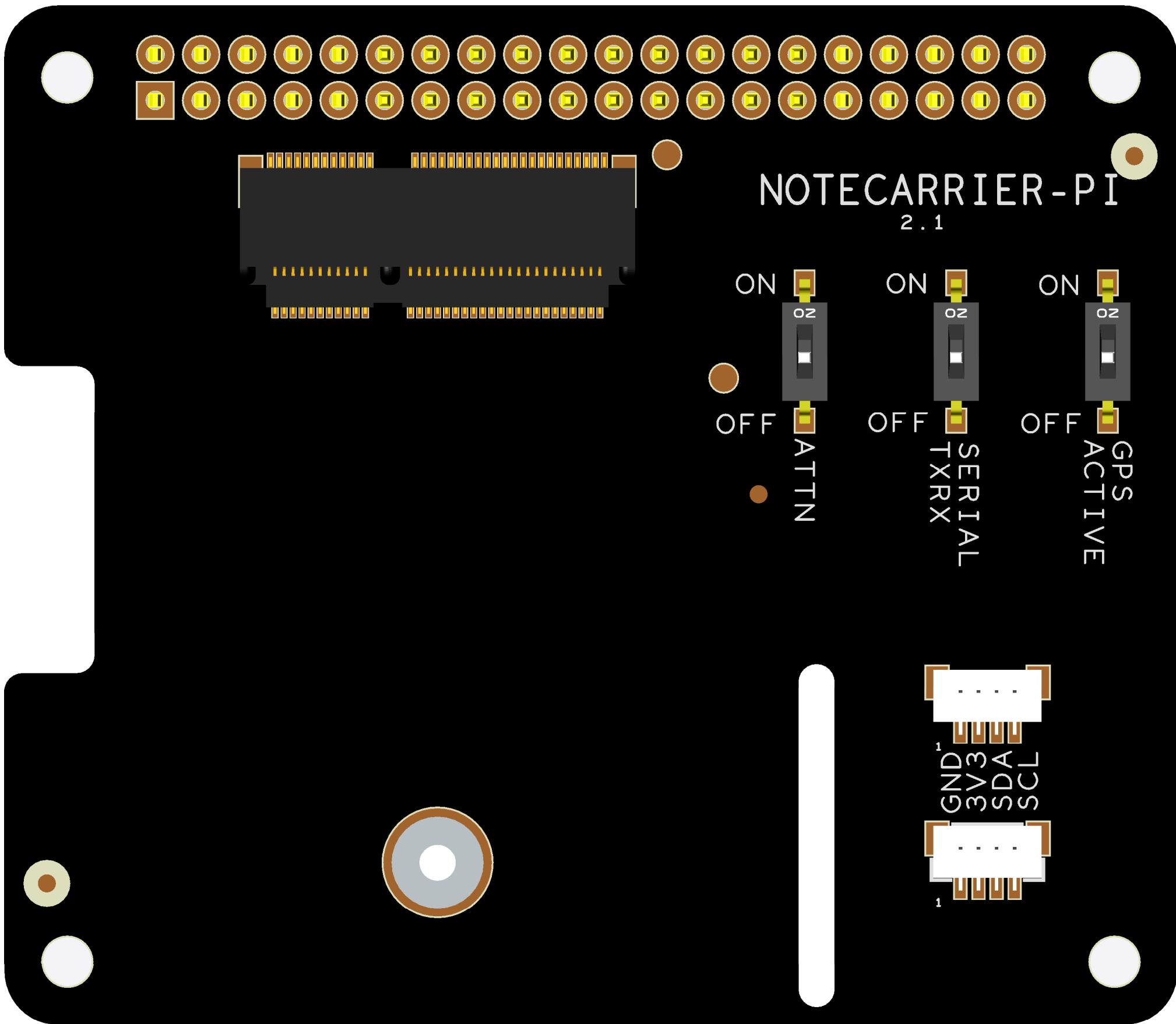


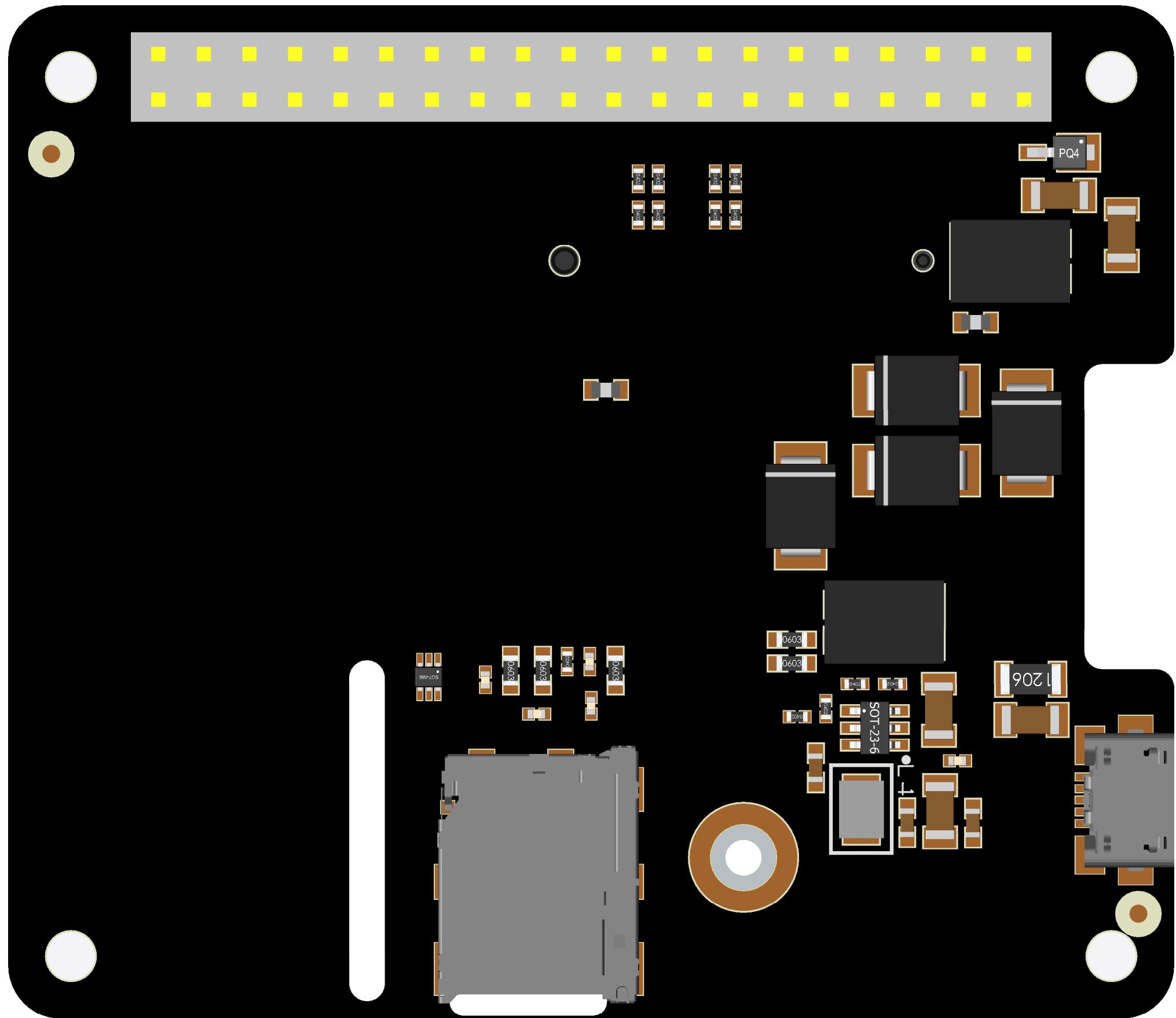
## PCB DOCUMENTATION

CUSTOMER: BLUES  
PROJECT: NOTE CARRIER-M2-PI V6  
FAE CODE: 2017-3047  
DATE: 2023-12-13

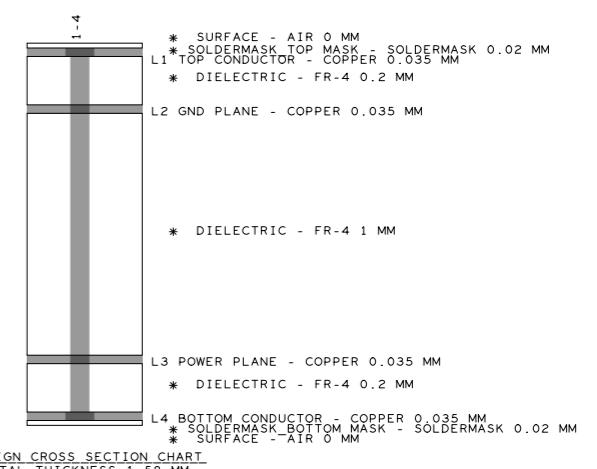
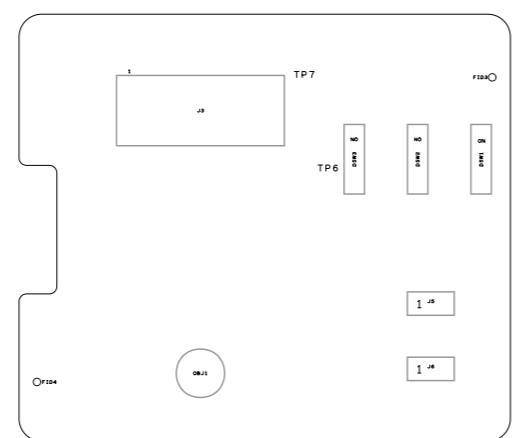








X  
Y  
Z



DESIGN CROSS SECTION CHART  
TOTAL THICKNESS 1.58 MM

TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

#### IMPEDANCE CONTROL TABLE

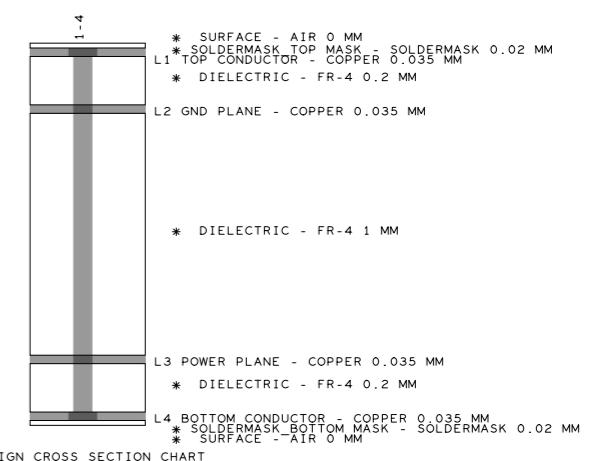
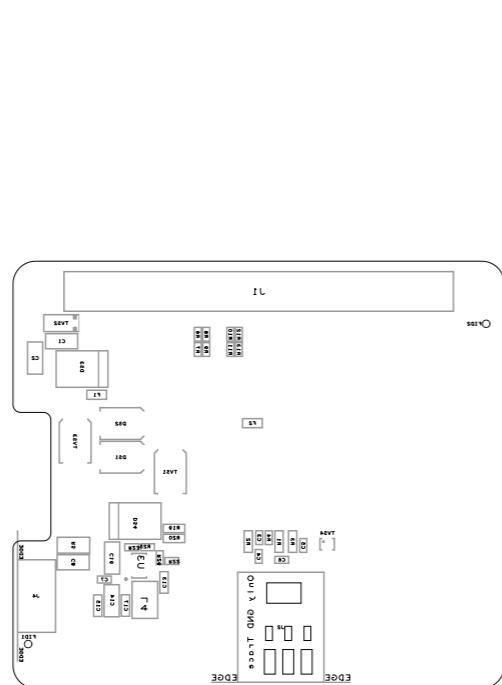
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

#### MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2   +/-0.2   +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Project name	NOTEBOOK	Board name
		NOTE CARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy	
Project Code	2017-3047	
Internal Code	-	Code -
Rev.	Size Page	Scale
6	A3	1:1
		Data 13/12/2023

**Blues Inc**



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

#### IMPEDANCE CONTROL TABLE

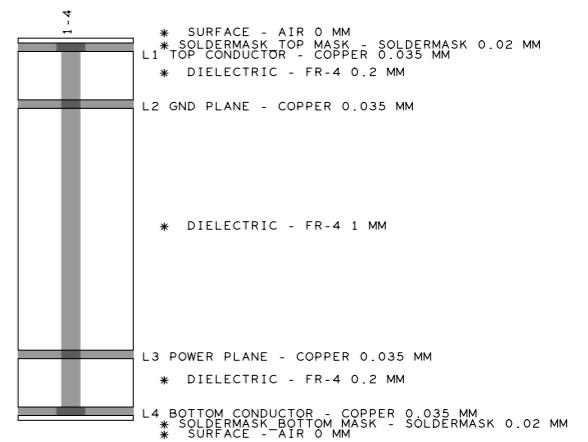
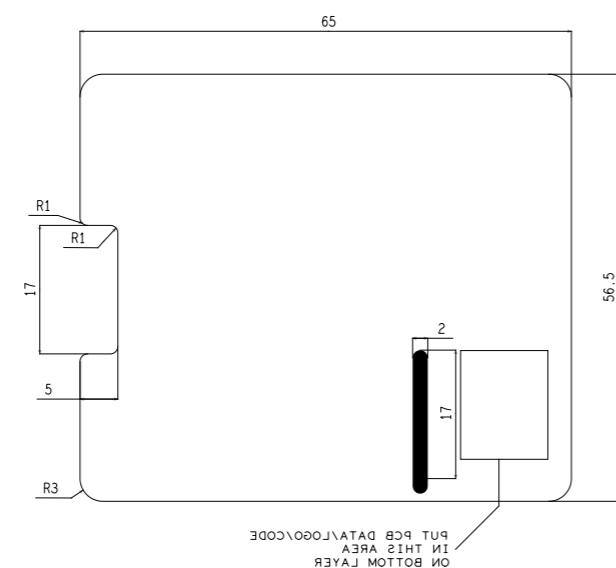
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

#### MANUFACTURING SPECIFICATIONS

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NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
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Project name	NOTEBOOK	Board name
		NOTE CARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy	
Project Code	2017-3047	
Internal Code -		Code -
Rev.	Size Page	Scale
6	A3	1:1
		Data 13/12/2023

**Blues Inc**



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

#### IMPEDANCE CONTROL TABLE

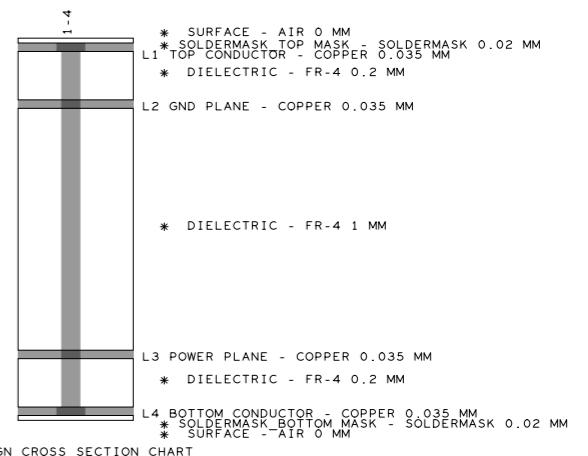
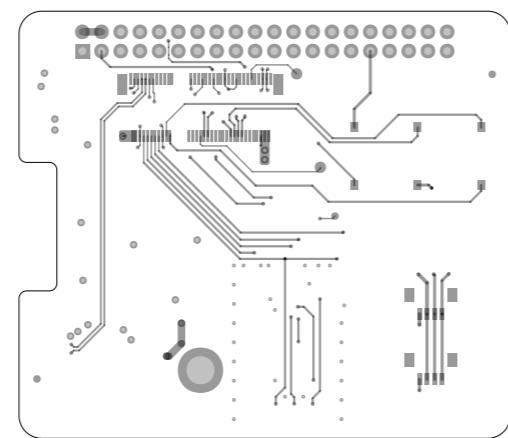
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
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#### MANUFACTURING SPECIFICATIONS

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SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Project name NOTEBOX	Board name NOTE CARRIER-M2-PI	
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy	
Project Code 2017-3047		
Internal Code -	Code -	
Rev. 6	Size Page A3	Scale 1:1
	Data 13/12/2023	

**Blues Inc**



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

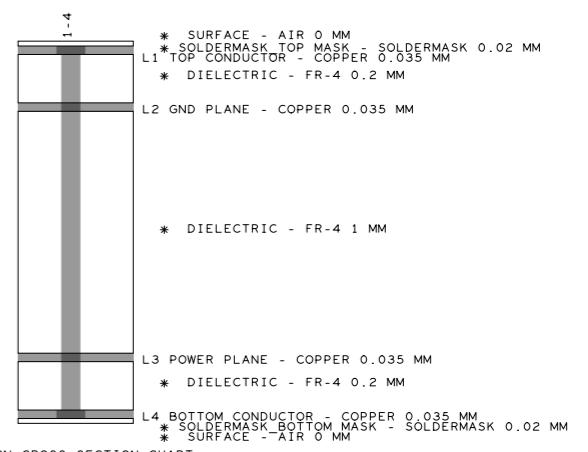
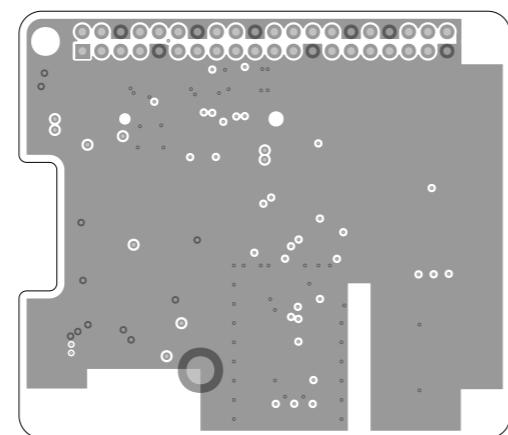
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#### MANUFACTURING SPECIFICATIONS

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IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

<b>Blues Inc</b>  Copyright (c) 2020 Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy		
Project Code	2017-3047		
Internal Code	-		Code
Rev.	Size Page	Scale	Data
6	A3	1:1	13/12/2023



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

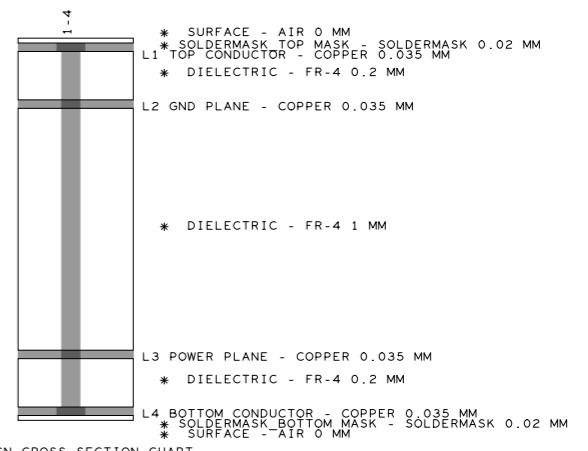
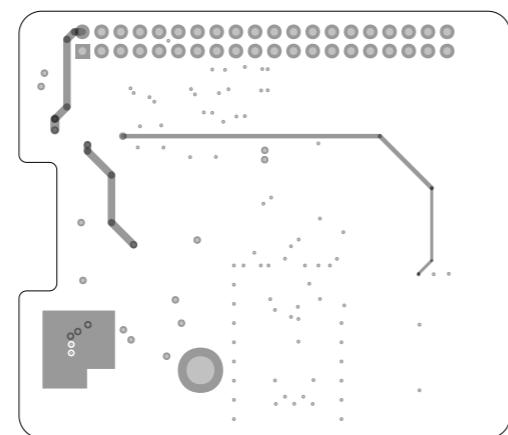
#### IMPEDANCE CONTROL TABLE

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#### MANUFACTURING SPECIFICATIONS

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Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy		
Project Code	2017-3047		
Internal Code	-		Code
Rev.	Size Page	Scale	Date
6	A3	1:1	13/12/2023



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

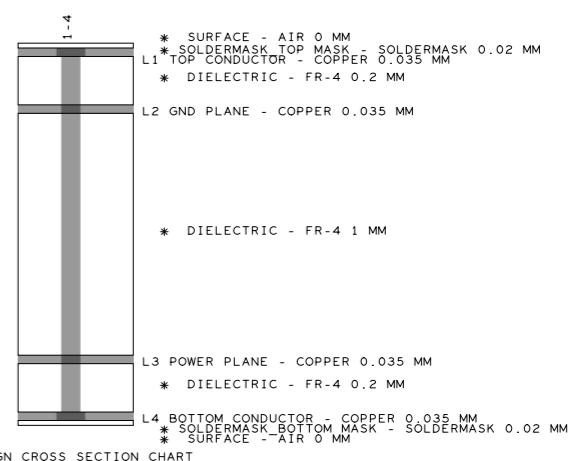
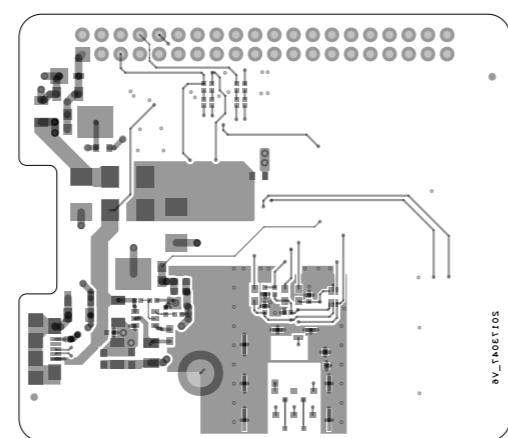
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<b>Blues Inc</b>  Copyright (c) 2020 Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy		
	Project Code 2017-3047		
	Internal Code -		Code -
	Rev. 6	Size Page A3	Scale 1:1
		Data 13/12/2023	



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

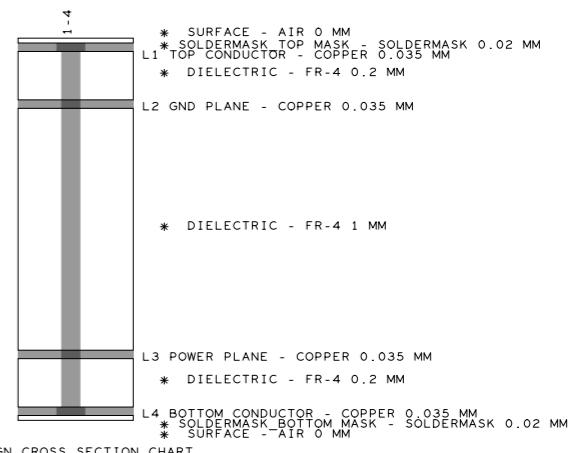
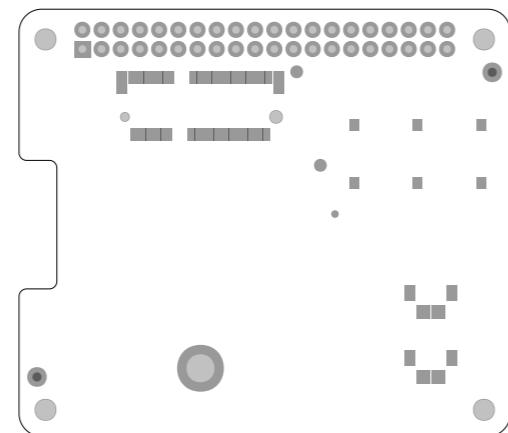
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<b>Blues Inc</b>  Copyright (c) 2020 Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy		
	Project Code 2017-3047		
	Internal Code -		Code -
	Rev. 6	Size Page A3	Scale 1:1
		Data 13/12/2023	



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

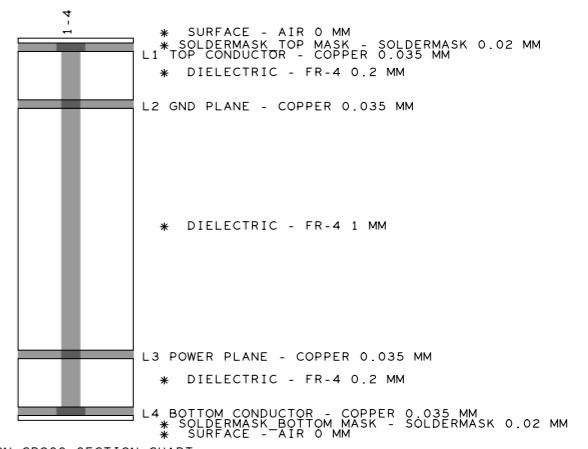
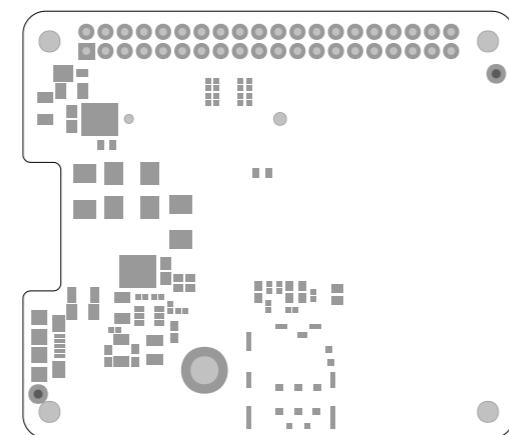
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TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

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CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
	Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy	
	Project Code	2017-3047	
	Internal Code	-	Code -
	Rev.	Size Page	Scale
	6	A3	1:1
		Data	13/12/2023



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

#### IMPEDANCE CONTROL TABLE

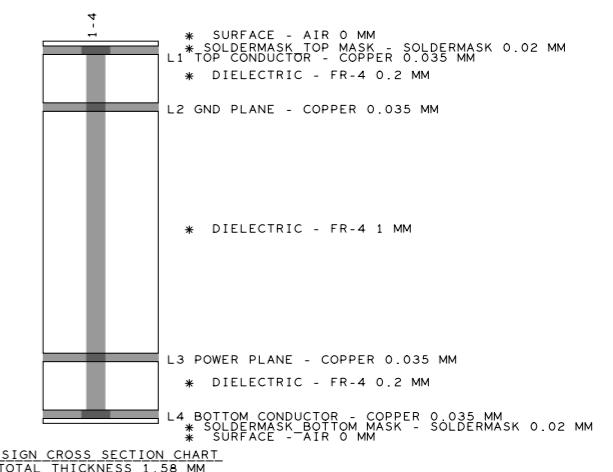
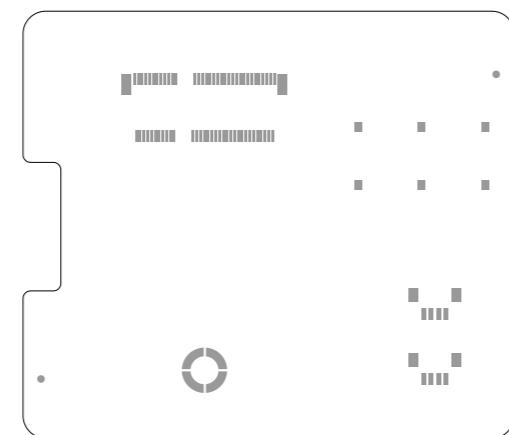
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
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Project name NOTEBOX	Board name NOTE CARRIER-M2-PI	
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy	
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Internal Code -	Code -	
Rev. 6	Size Page A3	Scale 1:1
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**Blues Inc**



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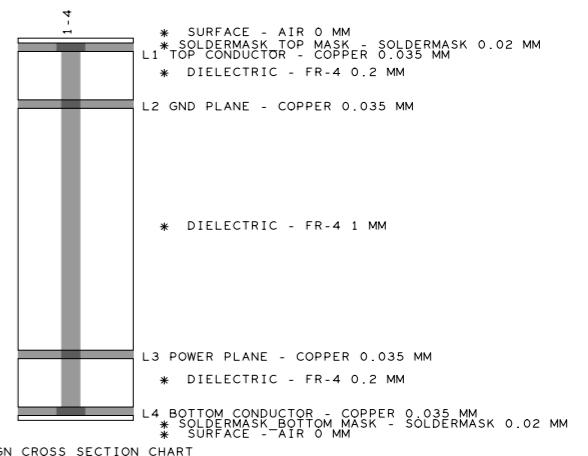
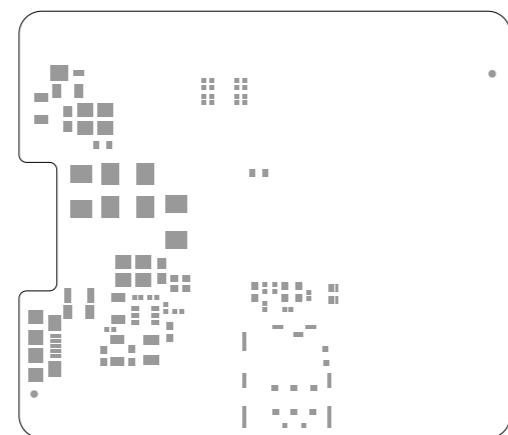
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Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy		
Project Code	2017-3047		
Internal Code	-	Code	-
Rev.	Size Page	Scale	Date
6	A3	1:1	13/12/2023



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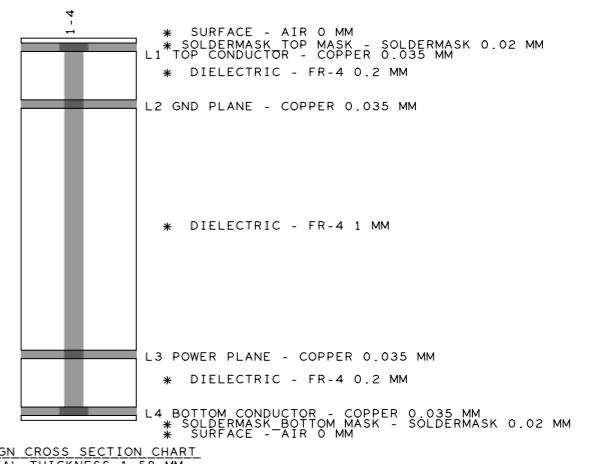
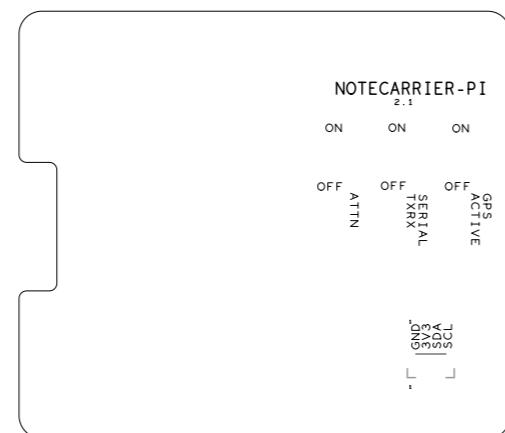
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Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
	Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy	
	Project Code	2017-3047	
	Internal Code	-	Code -
	Rev.	Size Page	Scale
	6	A3	1:1
			Data 13/12/2023
Copyright (c) 2020 Blues Inc			



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#### IMPEDANCE CONTROL TABLE

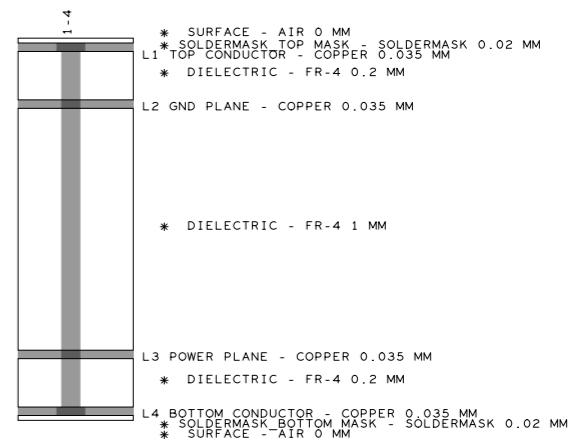
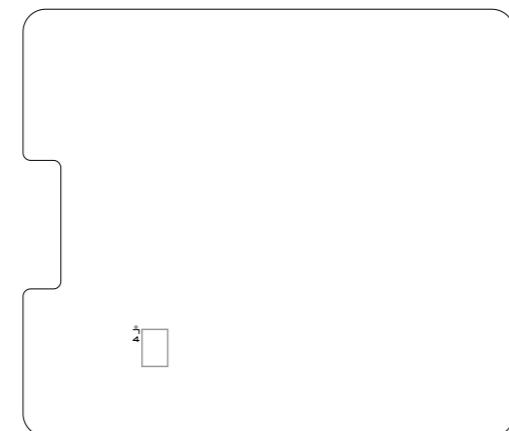
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#### MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2   +/-0.2   +/-10%	E-TESTING	YES
NO. OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	MATTE BLACK	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

	Project name		Board name
	NOTEBOX		NOTE CARRIER-M2-PI
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy		
	Project Code 2017-3047		
	Internal Code -		Code -
	Rev. 6	Size Page A3	Scale 1:1
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TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

#### IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

#### MANUFACTURING SPECIFICATIONS

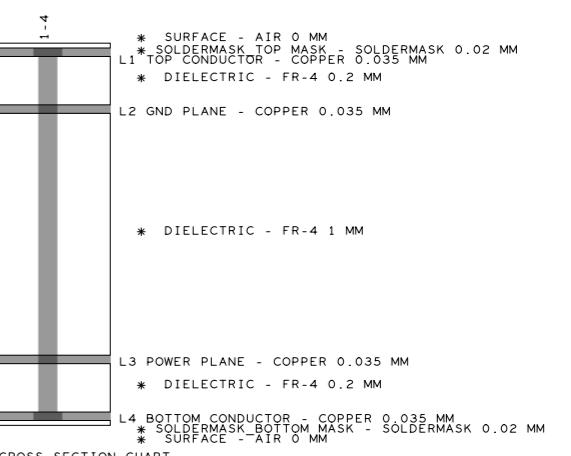
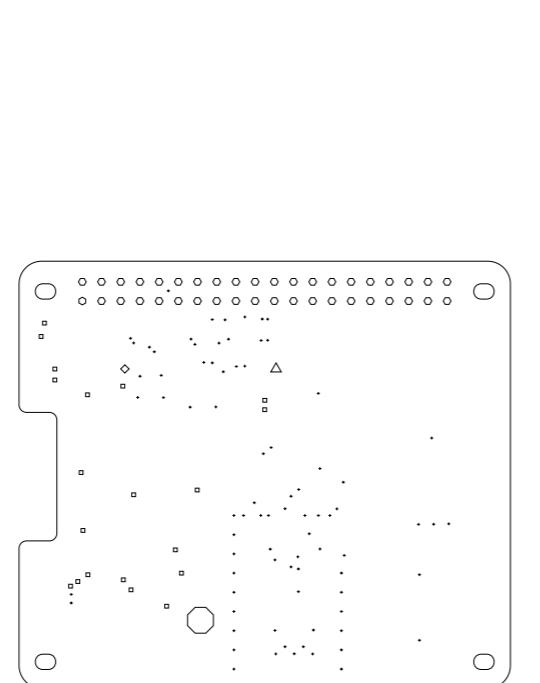
BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
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DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
	Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy	
	Project Code	2017-3047	
	Internal Code	-	Code -
	Rev.	Size Page	Scale
	6	A3	1:1
			Data 13/12/2023
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**DRILL CHART: TOP to BOTTOM**

ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED SIZE	TOLERANCE	TYPE	QTY
•	0.254	+0.075/-0.075	PLATED	82
▫	0.5	+0.075/-0.075	PLATED	20
○	1.02	+0.08/-0.08	PLATED	39
○	1.02	+0.08/-0.08	PLATED	1
○	3.7	+0.075/-0.075	PLATED	1
◊	1.1	+0.075/-0.075	NON-PLATED	1
△	1.6	+0.075/-0.075	NON-PLATED	1
○	2.7	+0.1/-0.1	NON-PLATED	4



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

## IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

## MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
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DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Project name NOTEBOX	Board name NOTE CARRIER-M2-PI	
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy	
Project Code 2017-3047		
Internal Code -	Code -	
Rev. 6	Size Page A3	Scale 1:1
	Data 13/12/2023	