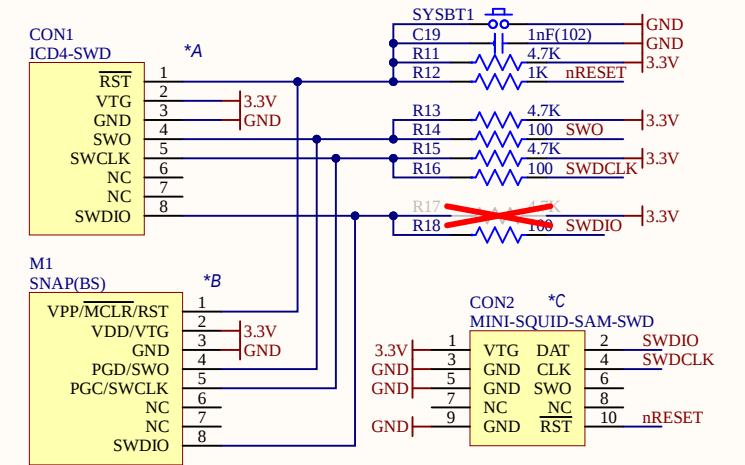
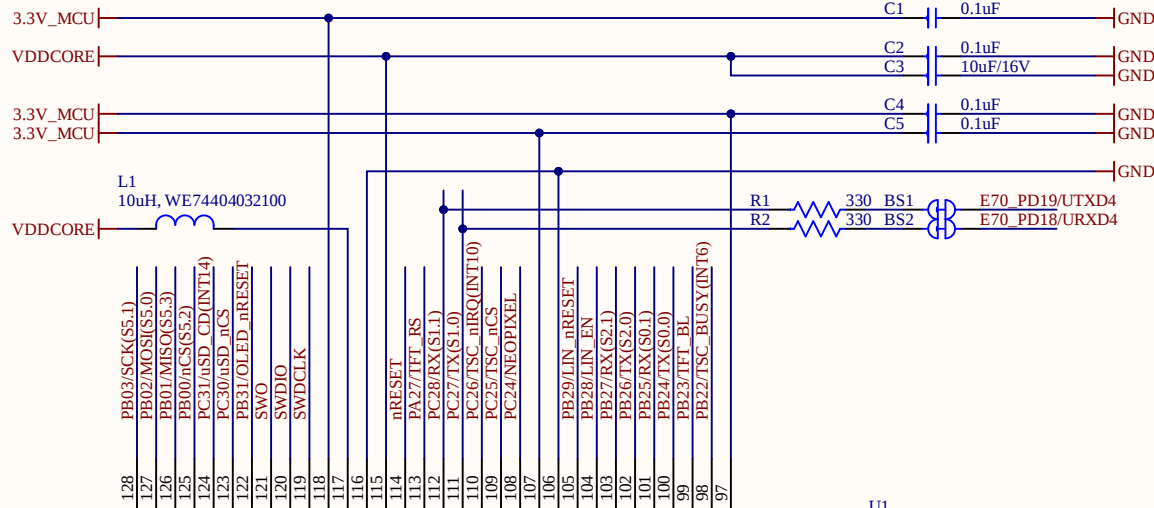
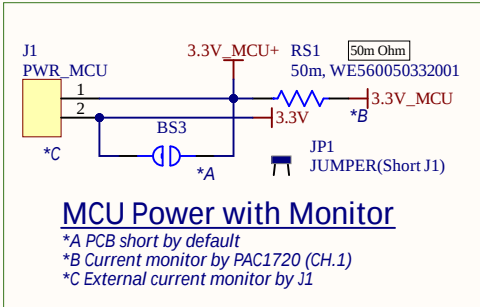
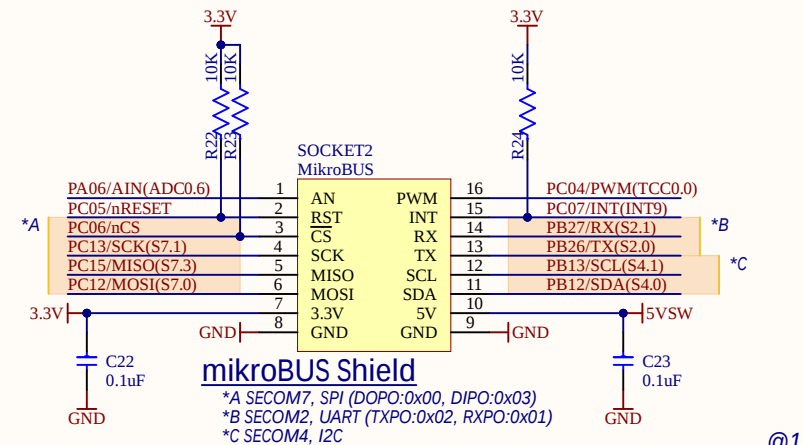
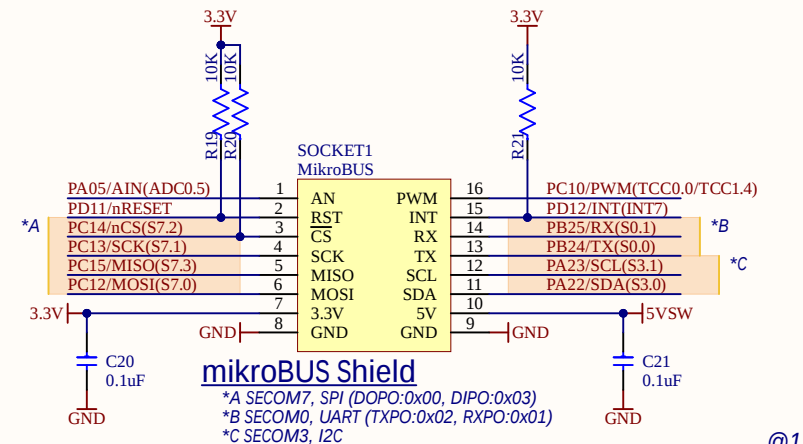
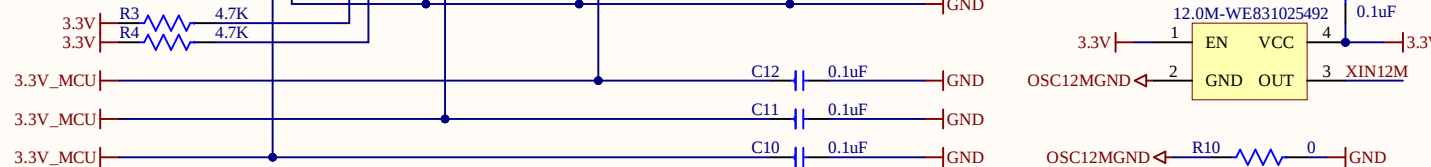
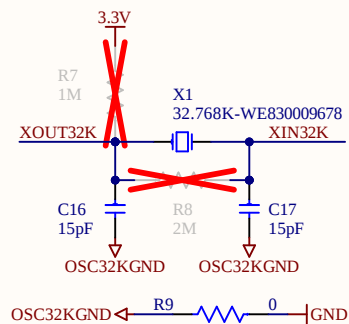
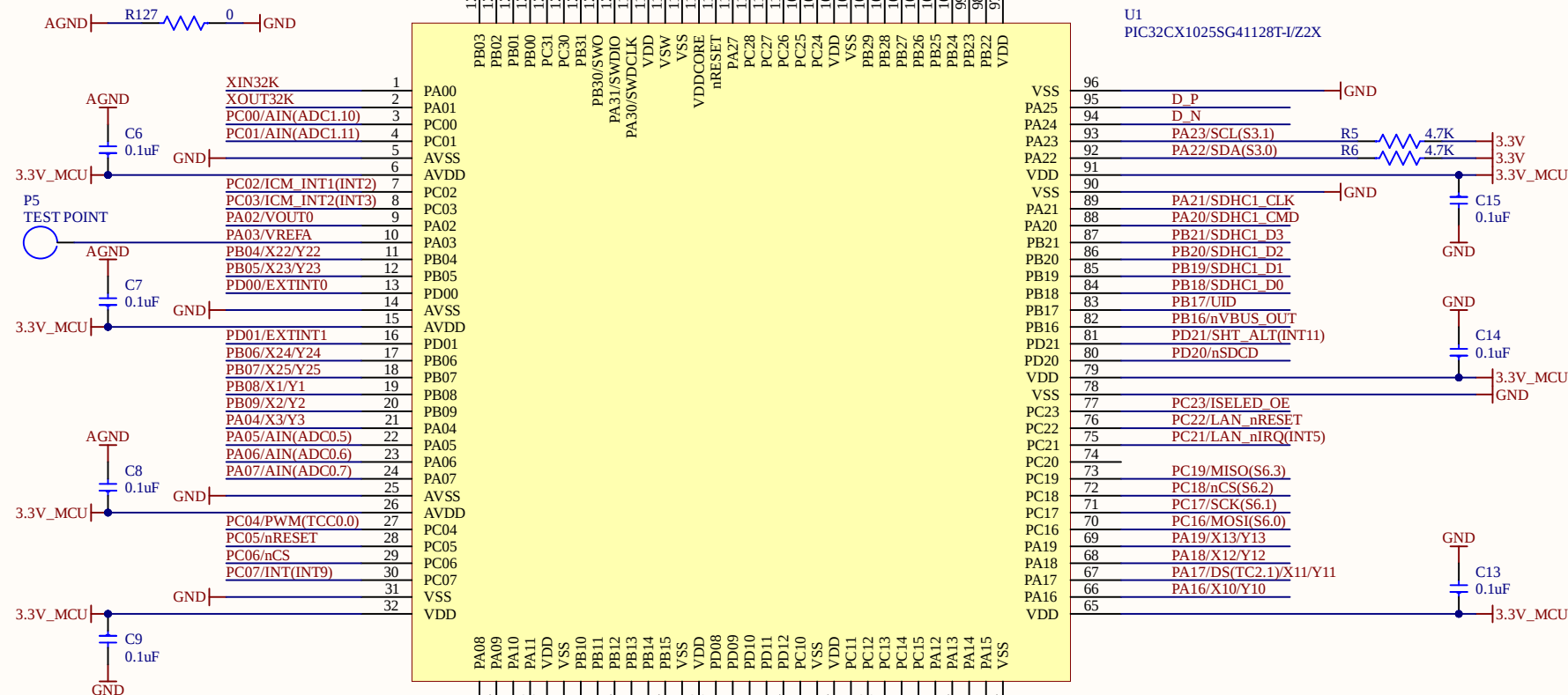


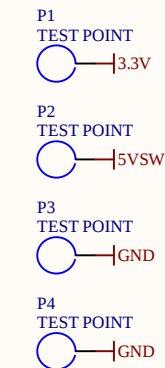
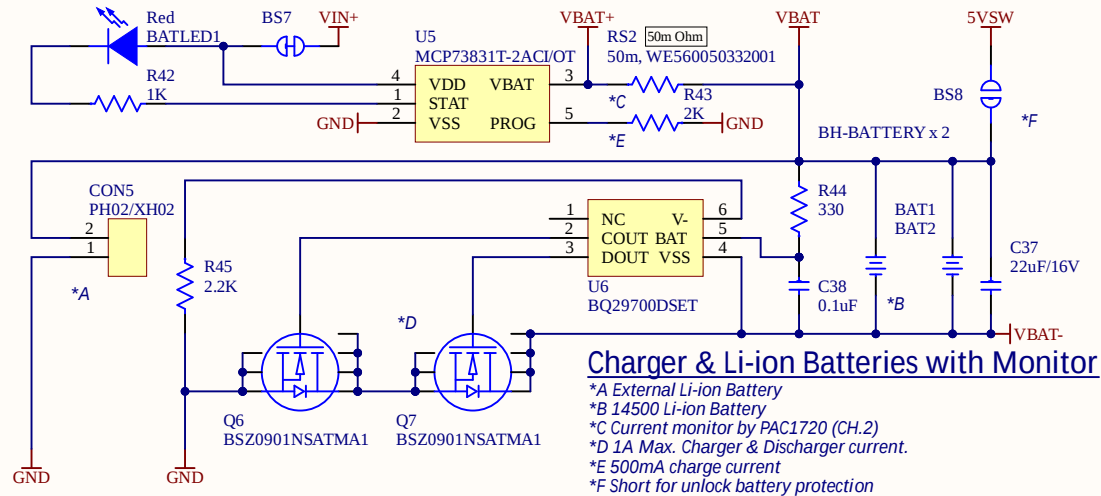
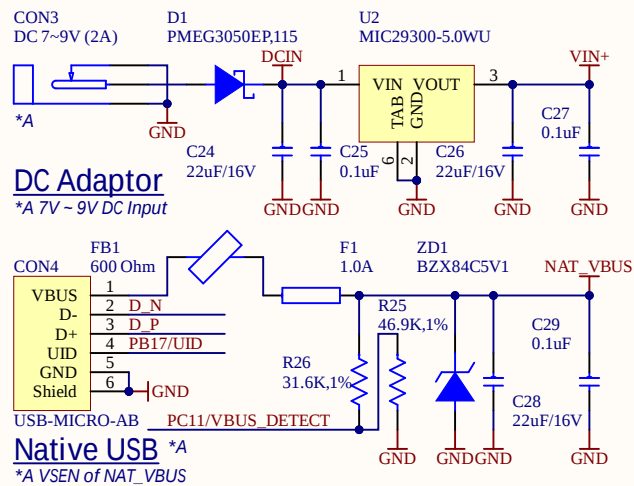


Programmer/Debugger Interface

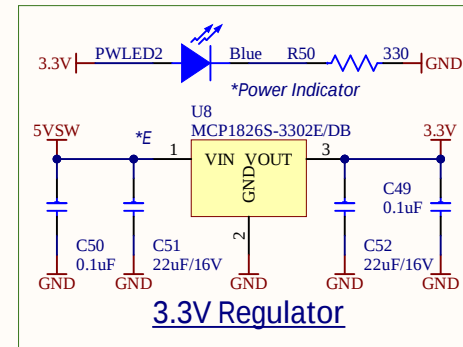
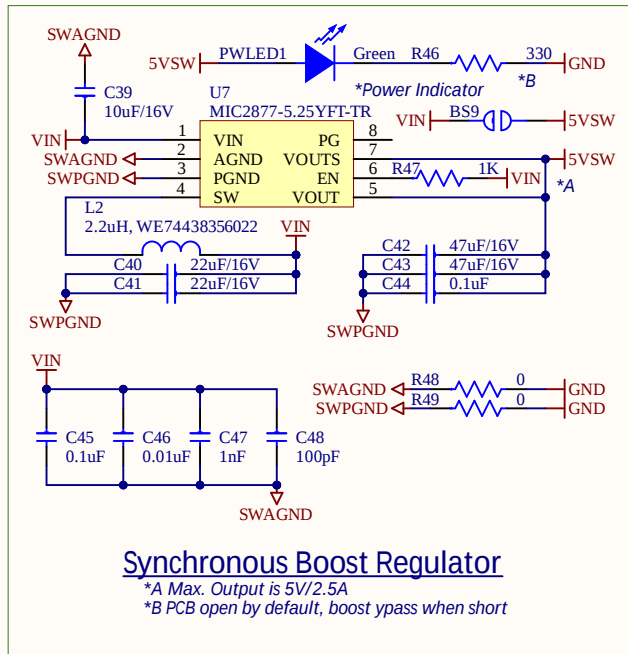
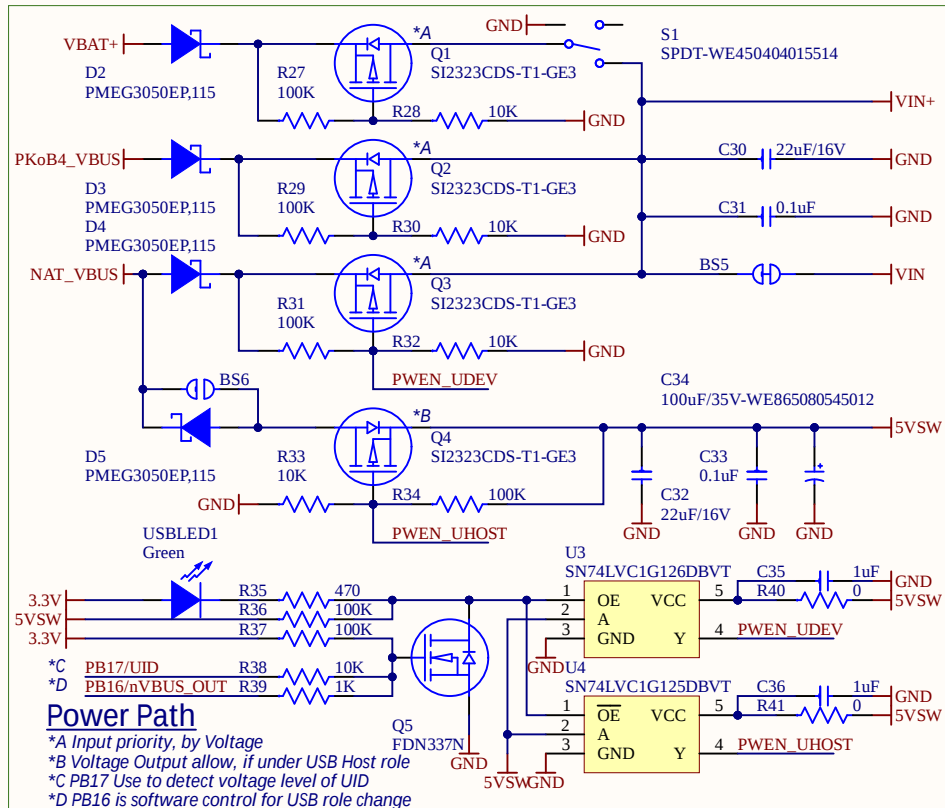
*A 8-Pin(SIP), 100mils, SWD interface for ICD4/PICkit4
*B 8-Pin(SIP, 90°), 100mils, Built-In, SWD interface for SNAP (optional)
*C 10-Pin(DIP), 50mils, SWD interface for Amtel ICE



Title	APP055 1 / 6		Production
ARM Cortex M4 PIC32CX SG4x/6x EVM Board		Main MCU	
Size	Number	Revision	
A3		v1.10 R1	
Date:	2/25/2025	Sheet of	
File:	G:\我的雲端硬碟\APP055 v1.10 - 1 Main MCU SchDoc	Adam Syu	

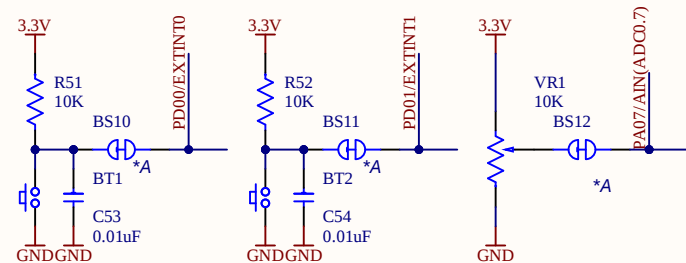


Testing Point

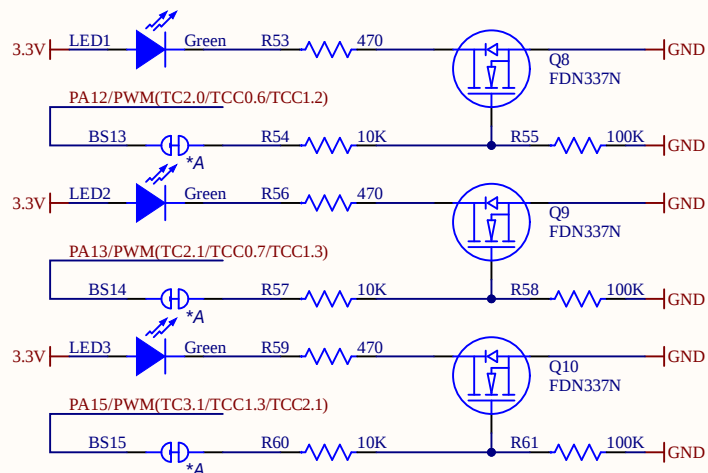


Title APP055		2 / 6	Production
ARM Cortex M4 PIC32CX SG4x/6x EVM Board		Power	
Size A4	Number	Revision v1.10 R1	
Date: 2/25/2025	Sheet of		
File: G:\我的雲端硬碟\APP055 v1.10 - 2 PowerSupply		Doc	

A



B



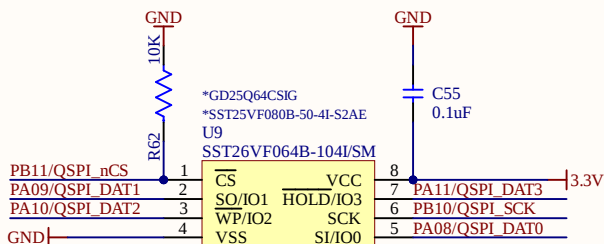
C

Basic User Interface

*A PCB short by default

@13

D



QSPI Flash

@13

Accelerometer

*A Two option for

*C SECOM3, I2C

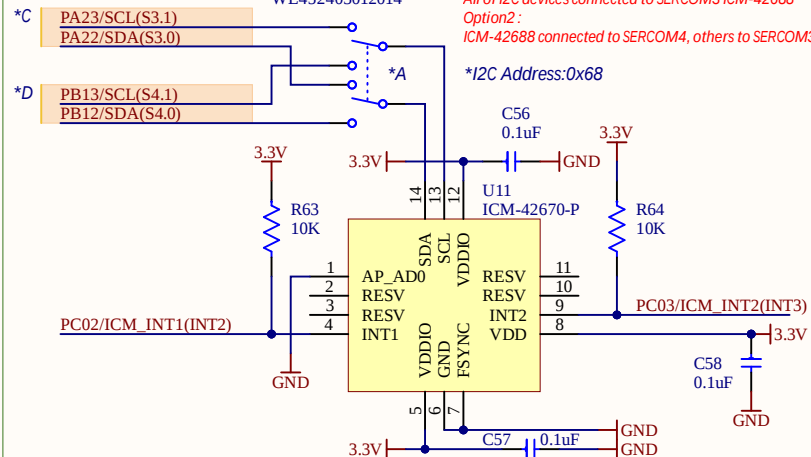
*D SECOM4, I2C

Option1:

All of I2C devices connected to SERCOM3 ICM-42688

Option2:

ICM-42688 connected to SERCOM4, others to SERCOM3

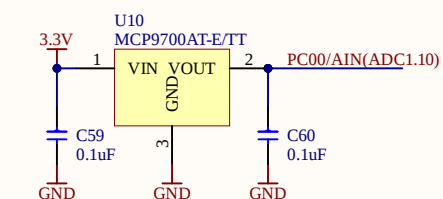


I2C Devices

Temperature Sensor, EEPROM with Unique ID

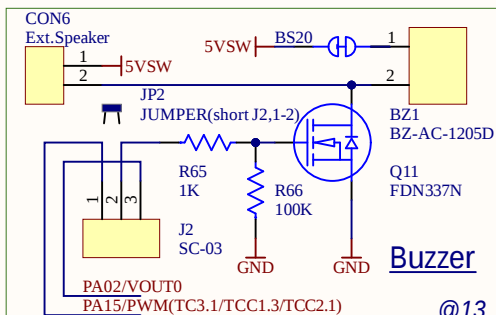
*A SECOM3, I2C

@13



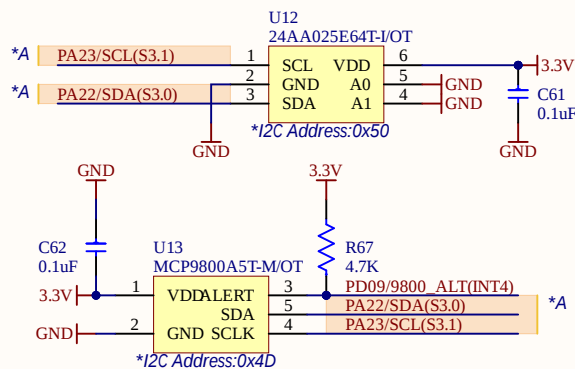
Analog Temperature Sensor

@13



Buzzer

@13



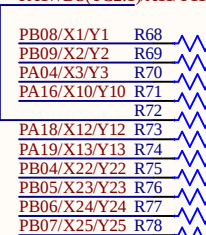
I2C Devices

Temperature Sensor, EEPROM with Unique ID

*A SECOM3, I2C

@13

PA17/DS(TC2.1)/X11/Y11



Q12
TEMT6000X01

PC01/AIN(ADC1.11)

R79
10K

GND

Light Sensor

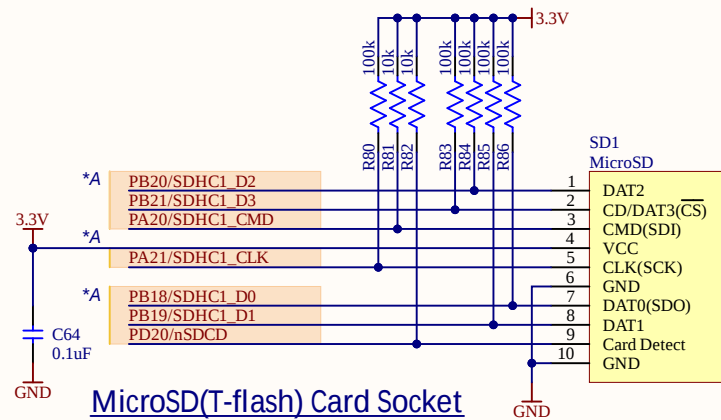
GND



Qtouch Connector

Jumper Packing

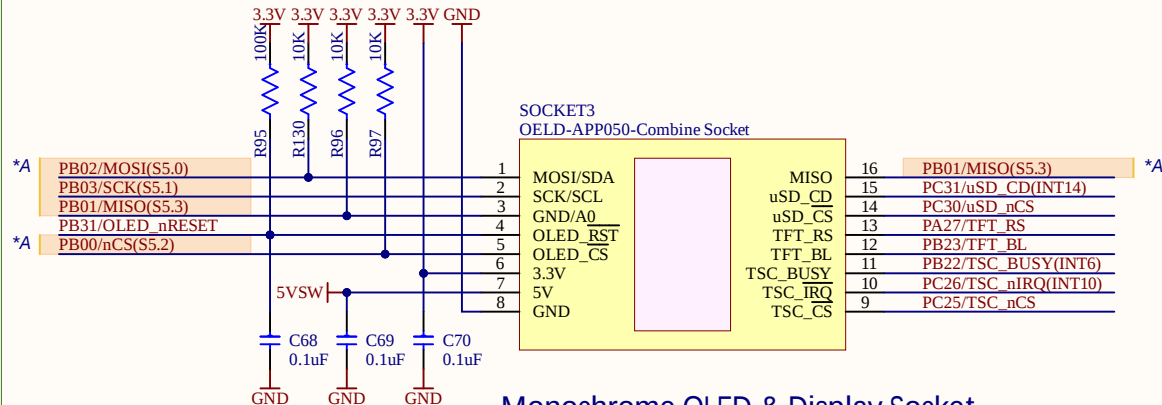
Title		APP055	3 / 6	Production
Size		ARM Cortex M4 PIC32CX SG4x/6x EVM Board	Peripherals	
Number			Revision	
A4			v1.10	R1
Date:	2/25/2025	Sheet of		
File:	G:\我的雲端硬碟\APP055 v1.10 - 3 Peripherals	Sheet of		
	G:\我的雲端硬碟\APP055 v1.10 - 3 Peripherals	Sheet of		



MicroSD(T-flash) Card Socket

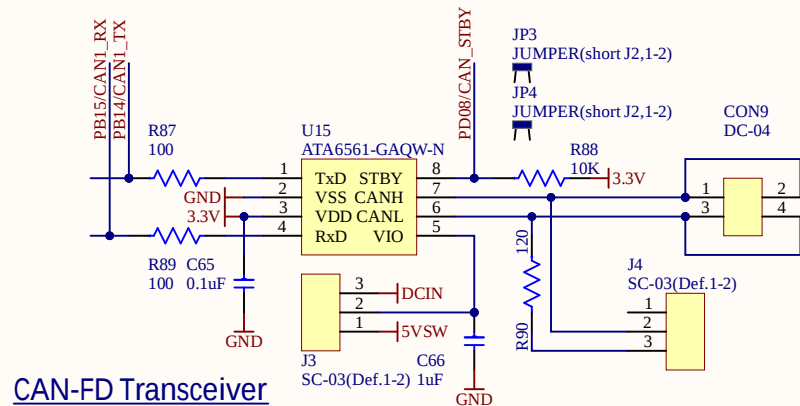
MicroSD Card support SDHC mode only
*A SDHC1

@13

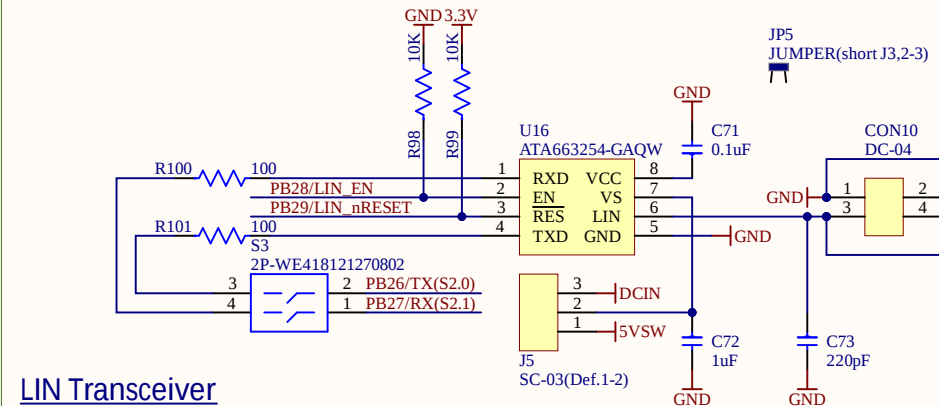


Monochrome OLED & Display Socket

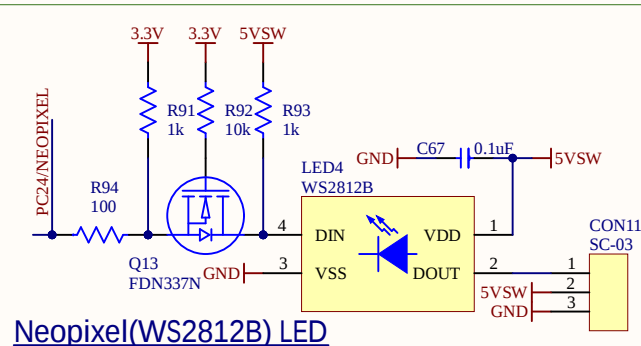
1.3" OLED, SPI Interface, SSD1306 controller built-in
*A SECOM5, SPI (DOP0:0x00, DIPO:0x03)



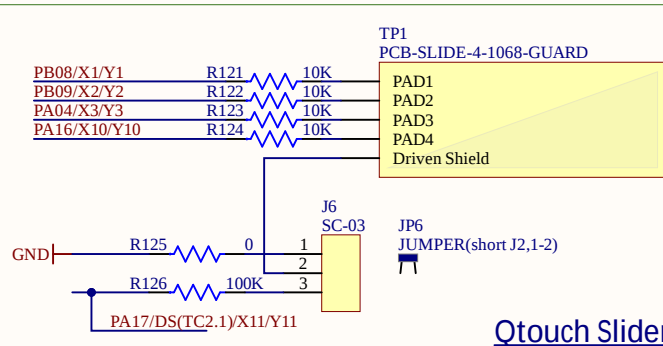
CAN-FD Transceiver



LIN Transceiver

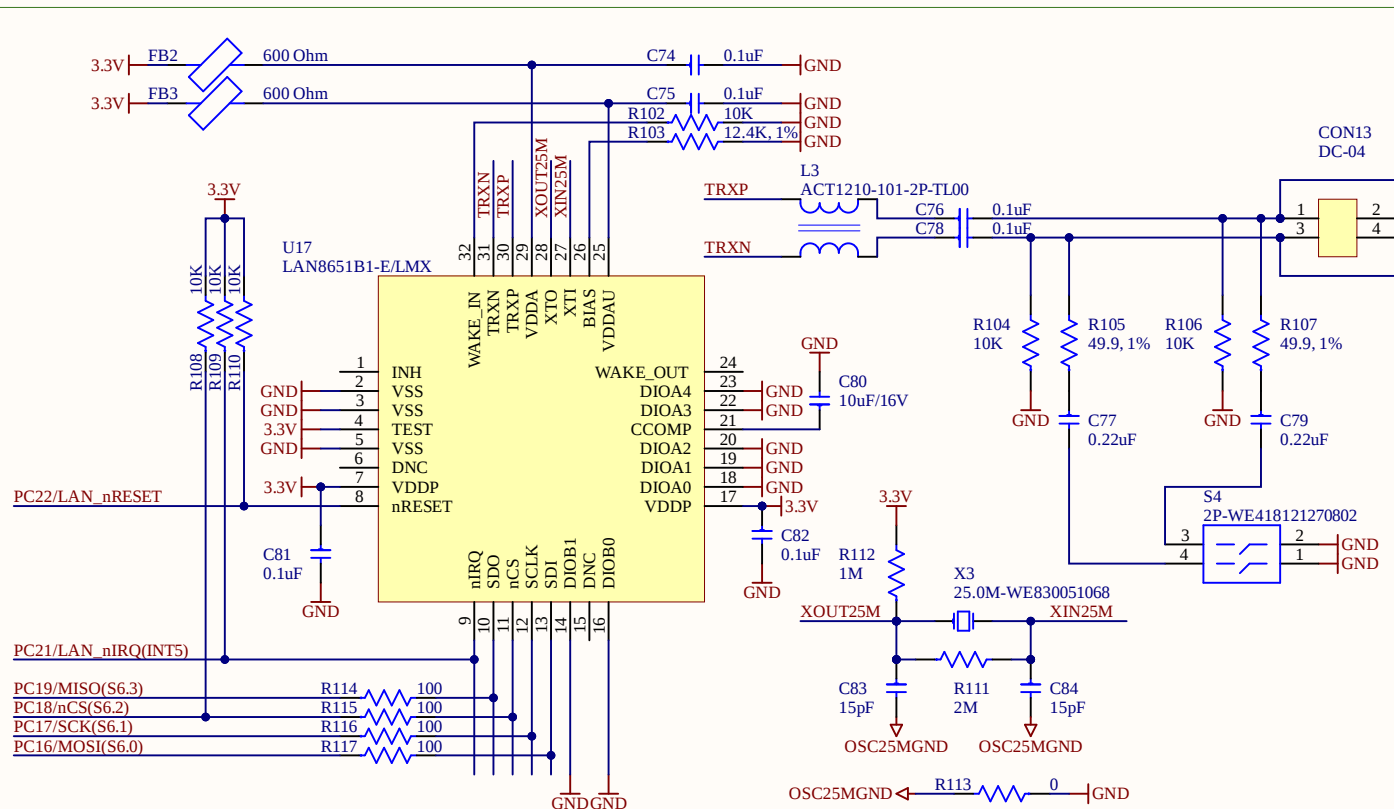
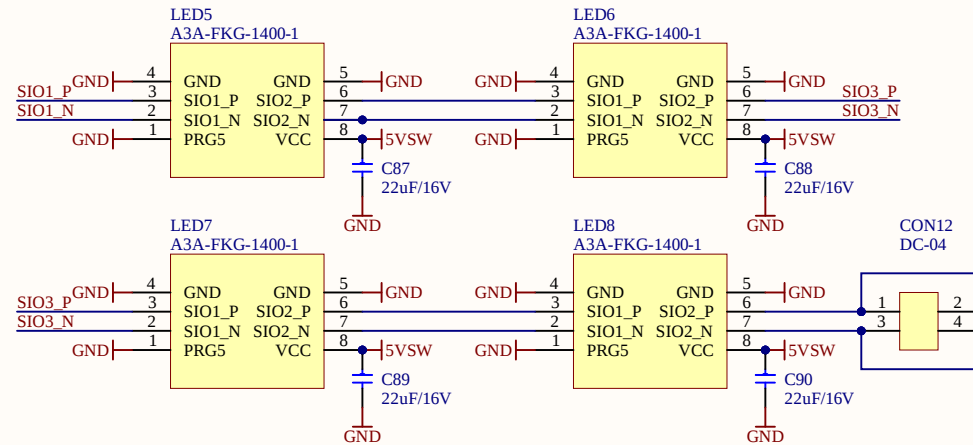


Neopixel(WS2812B) LED



Qtouch Slider

Title		APP055	4 / 6	Production
Size		ARM Cortex M4 PIC32CX SG4x/6x EVM Board	Peripherals	
Number			Revision	
A4			v1.10	R1
Date:		2/25/2025	Sheet of	
File:		G:\我的雲端硬碟\APP055 v1.10 - 4 Peripherals	Peripherals	SchDoc



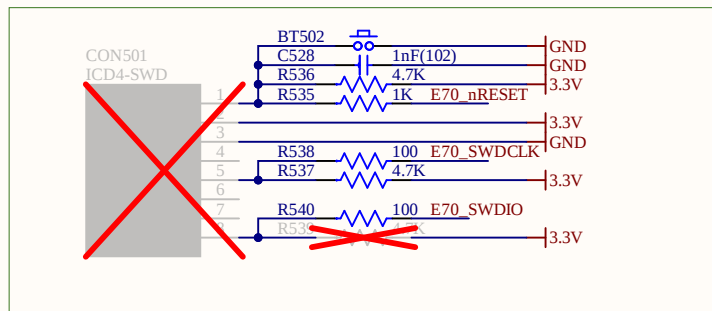
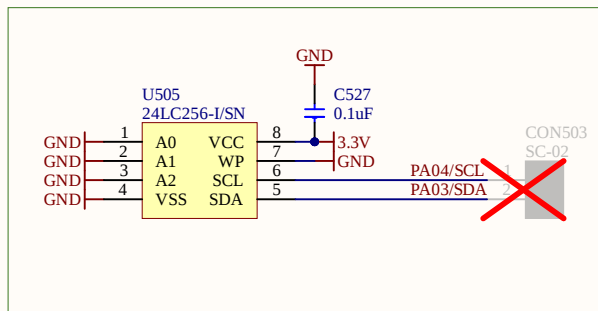
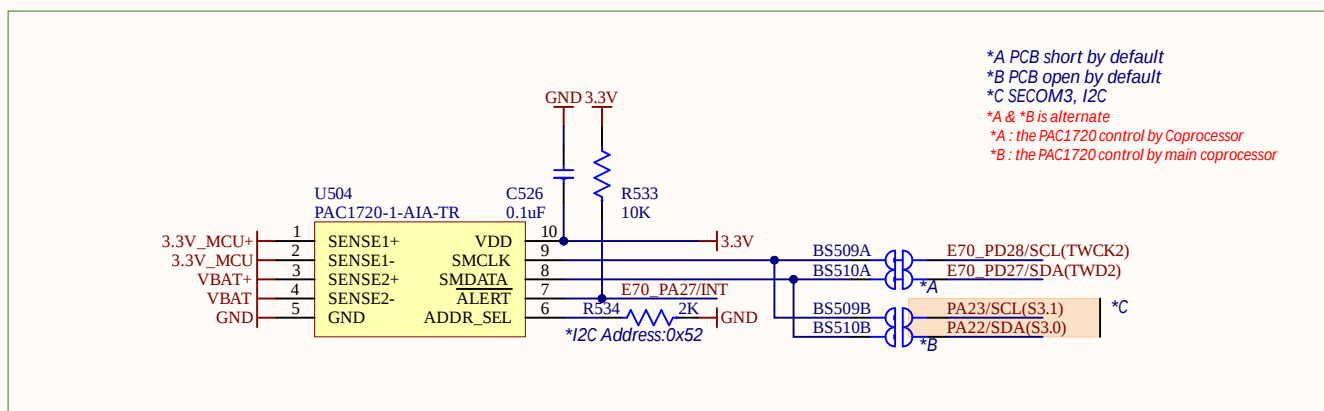
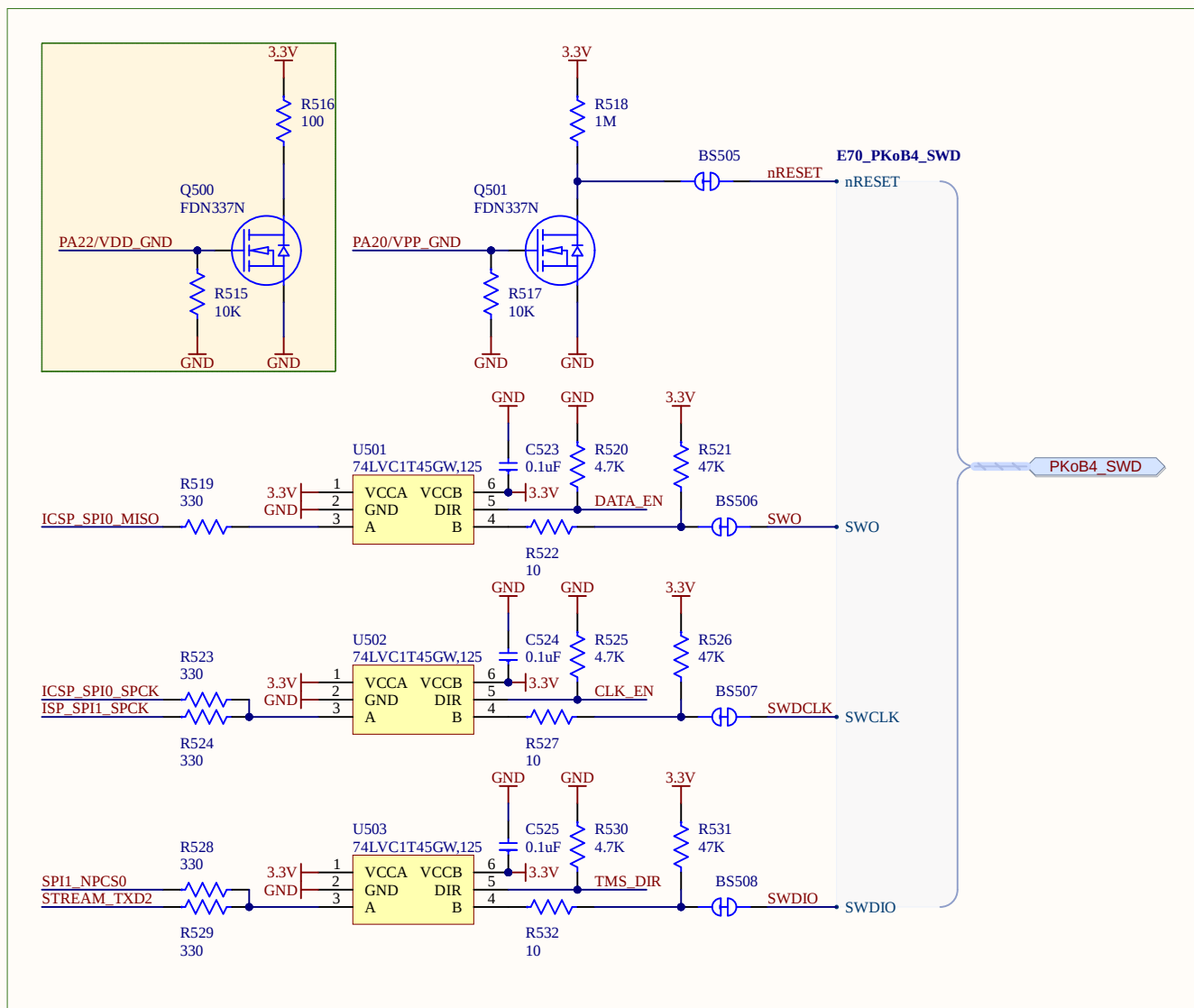
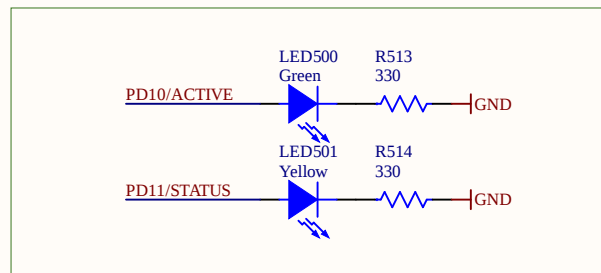
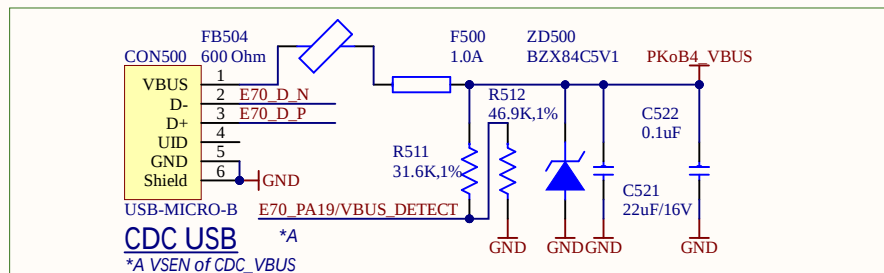
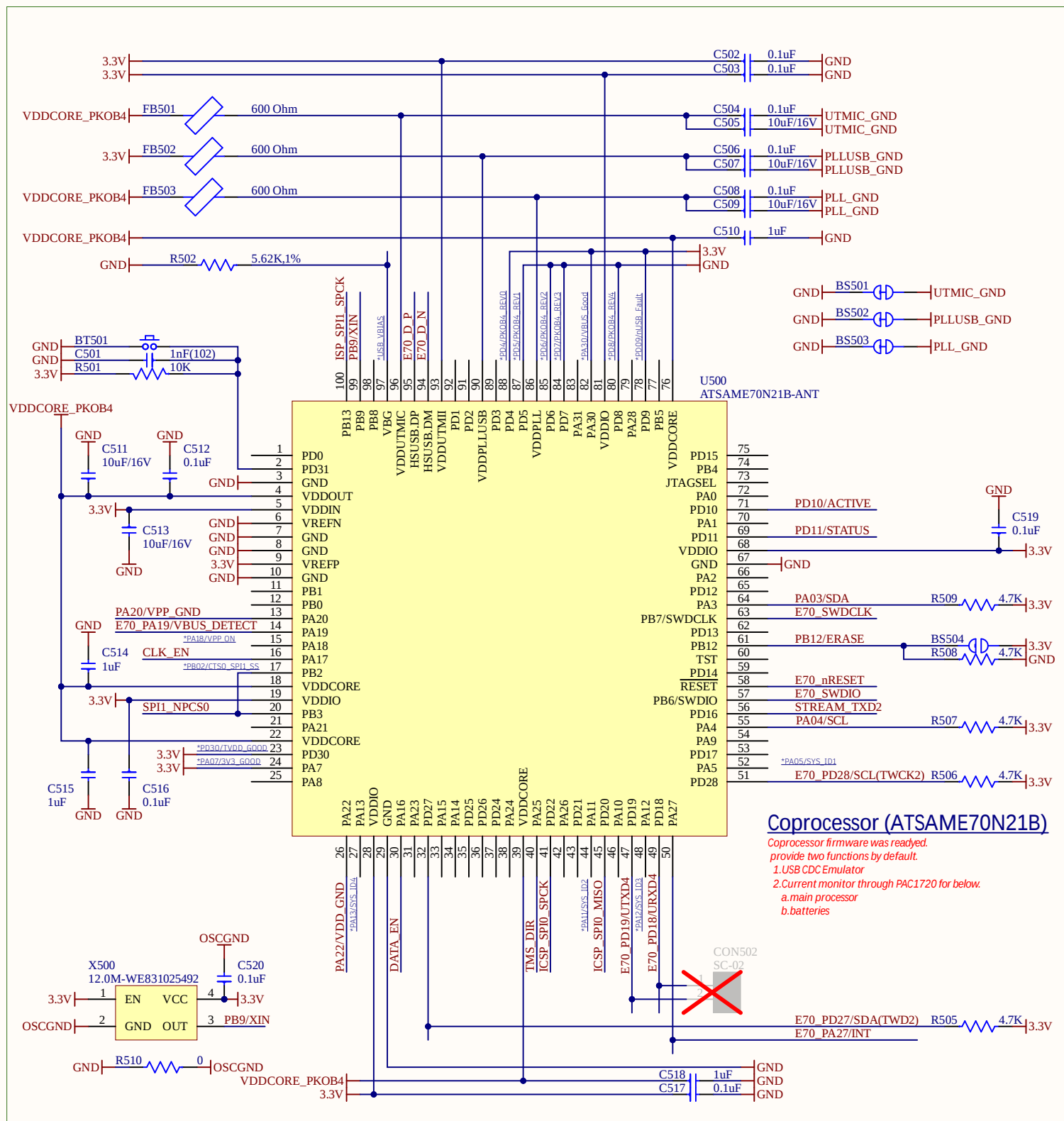
Title APP055 <i>ARM Cortex M4 PIC32CX SG4x/6x EVM Board</i> <i>Peripherals</i>		
Size A4	Number	Revision v1.10 <i>R1</i>
Date: 2/25/2025	Sheet of 5	
File:	G:\我的雲端硬碟\1.APP055 v1.10 - 5 Peripherals\SchDoc	

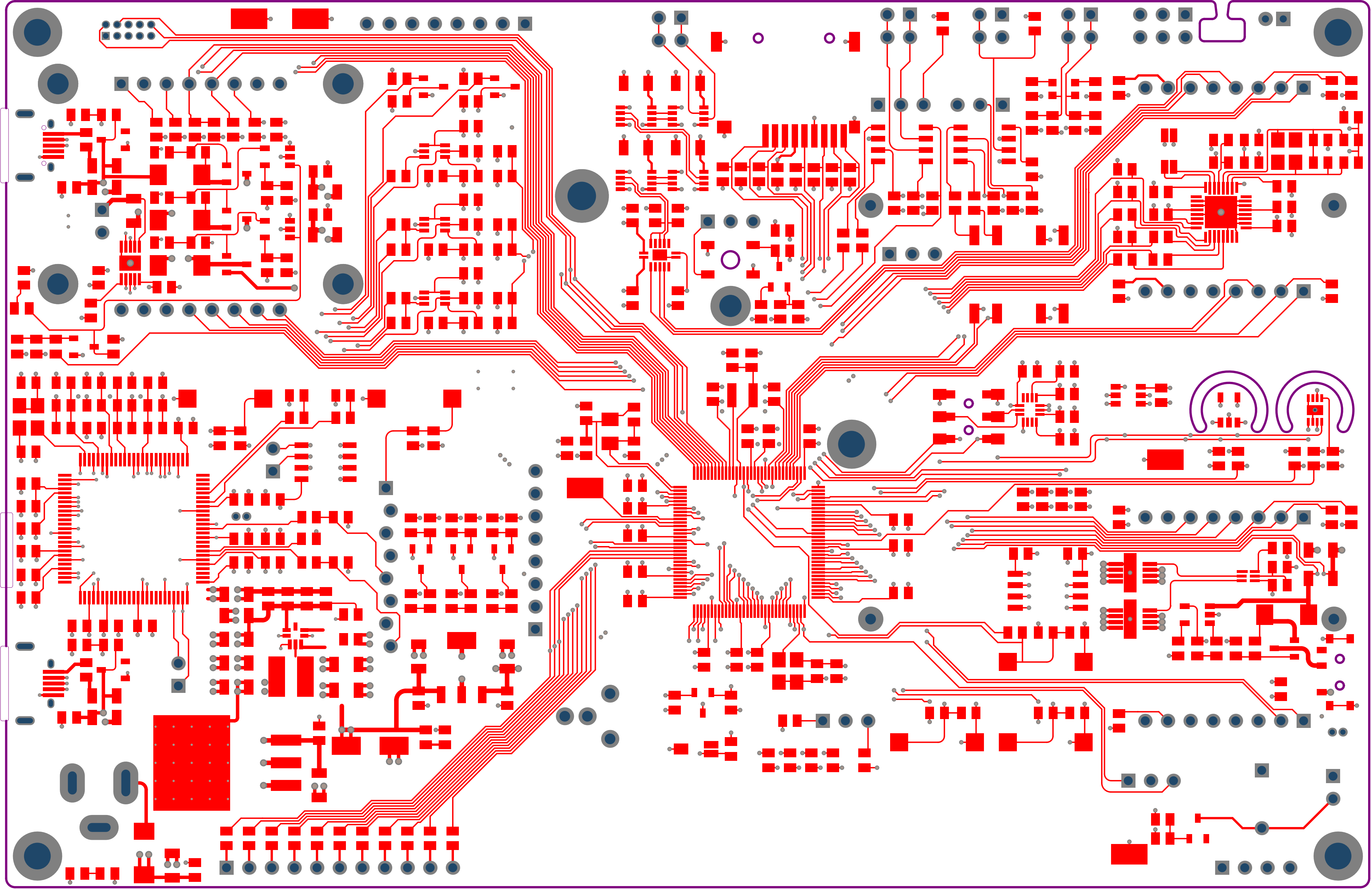
A

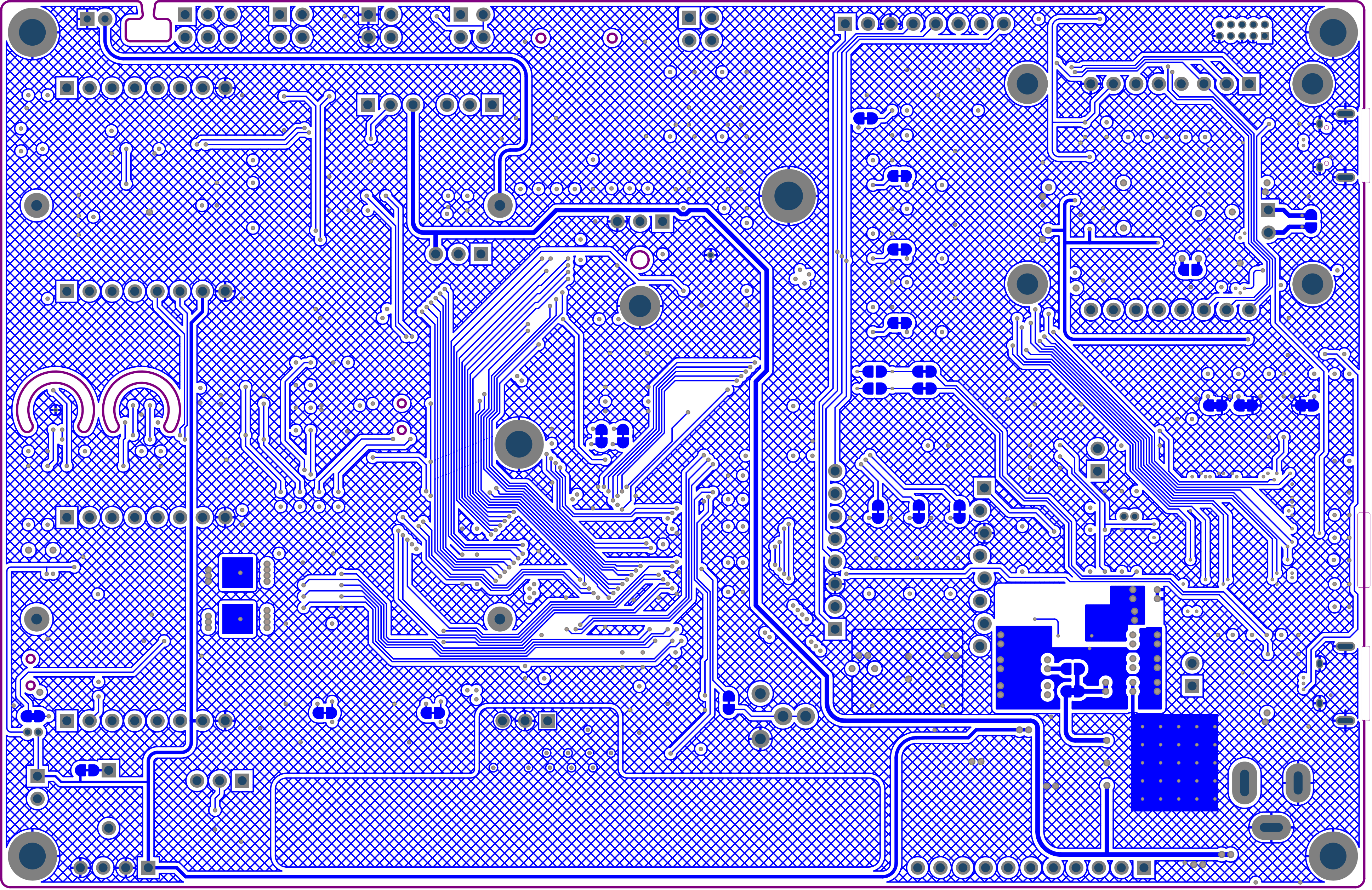
B

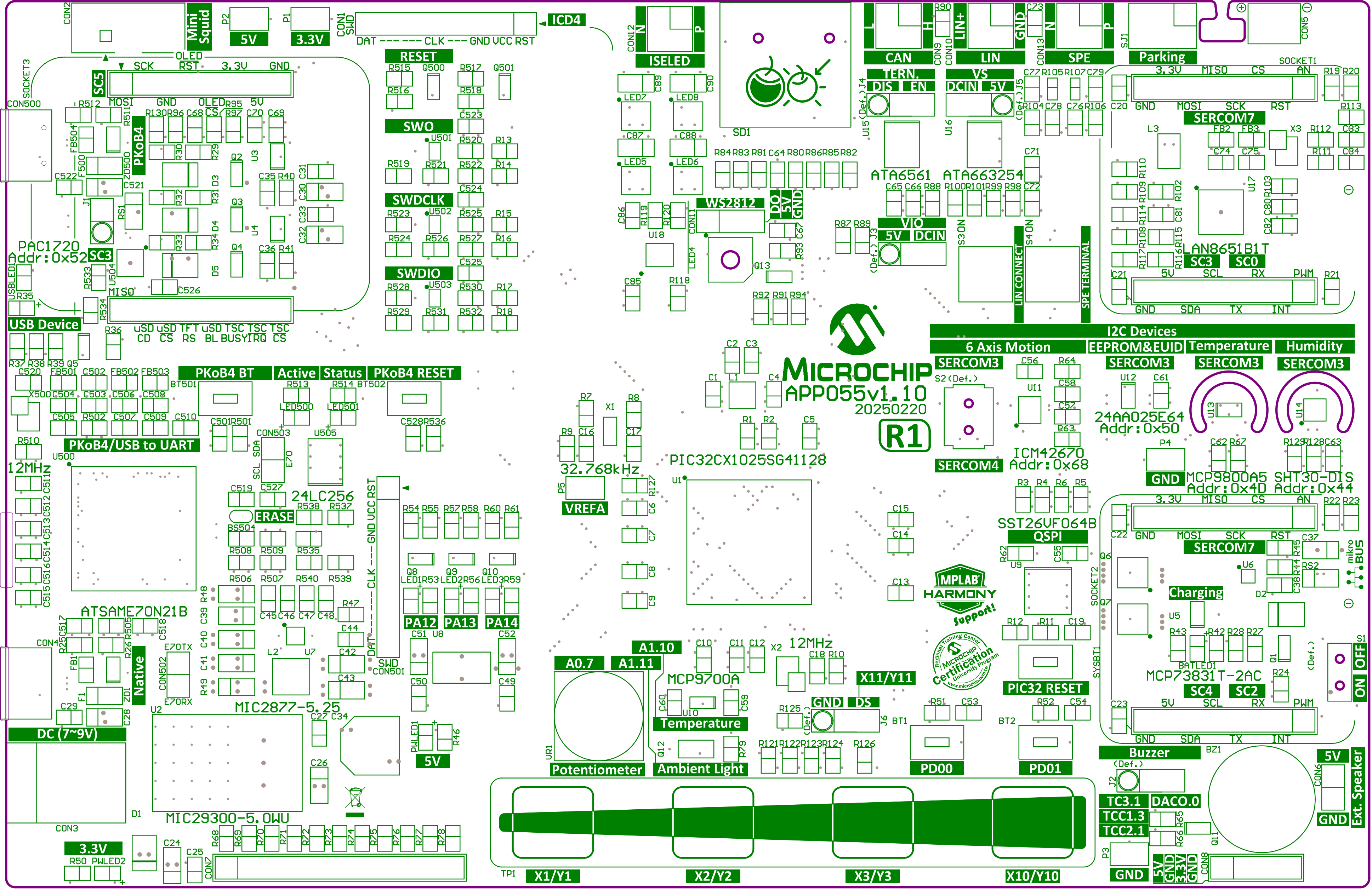
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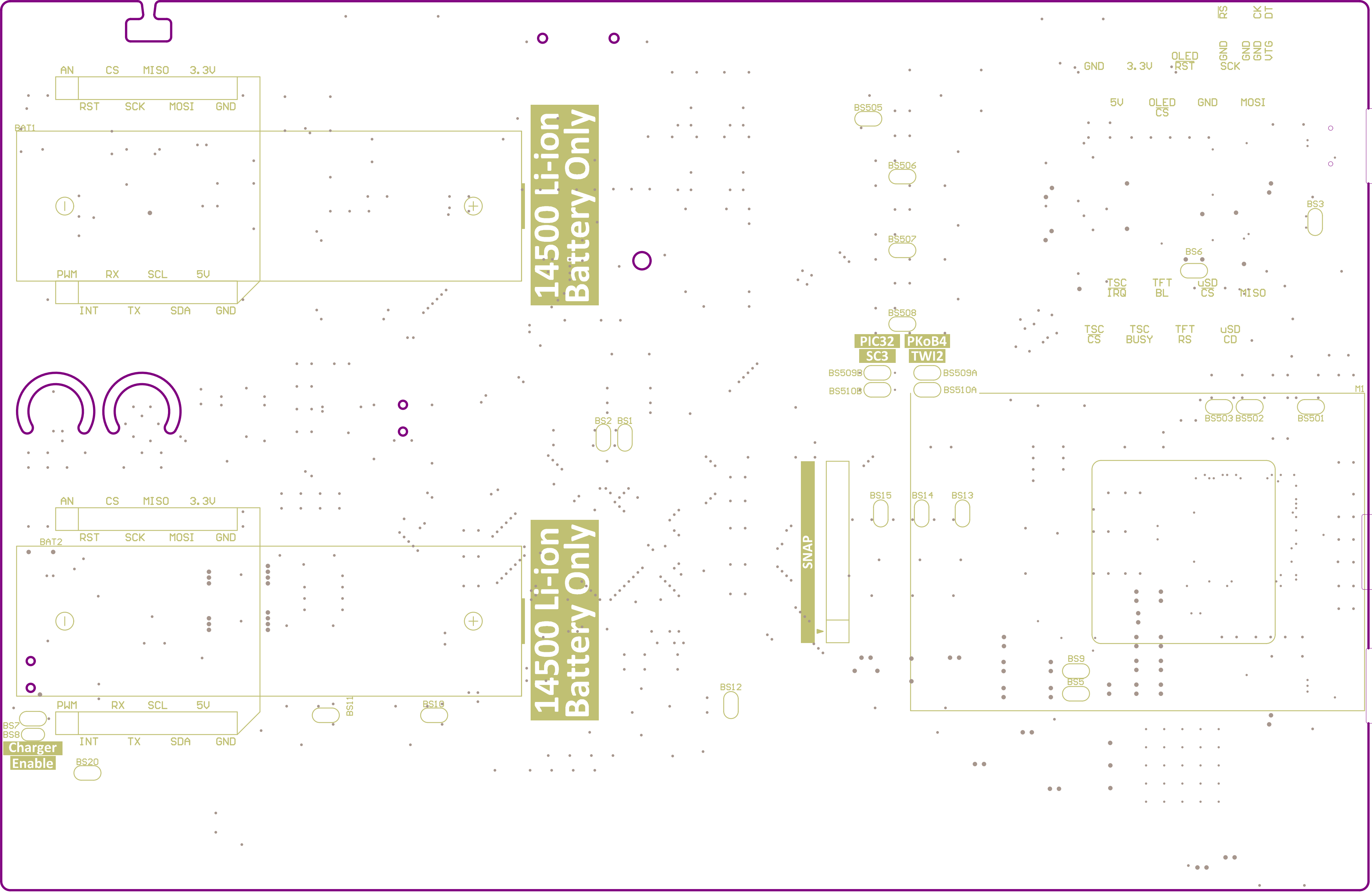
D

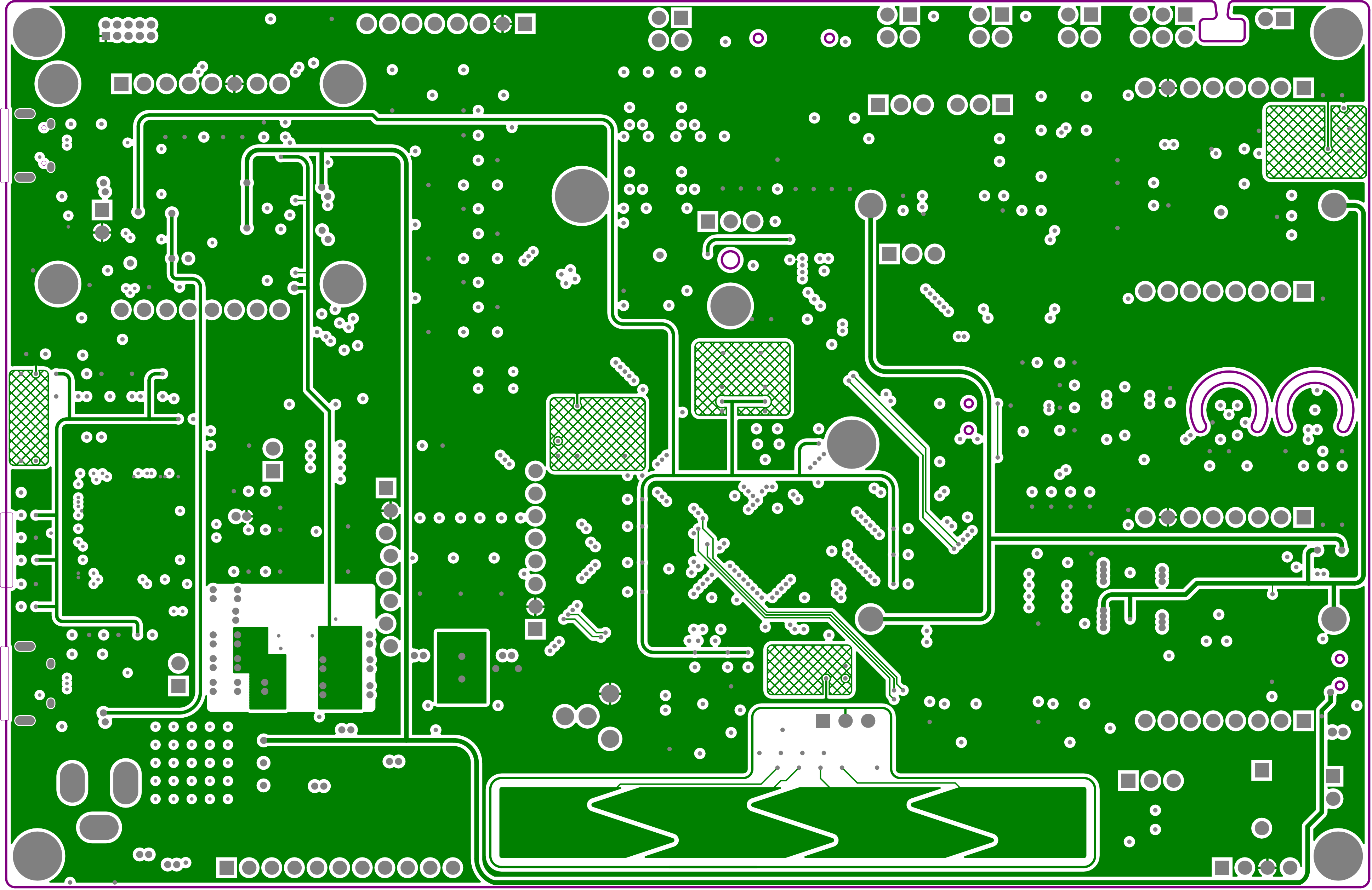


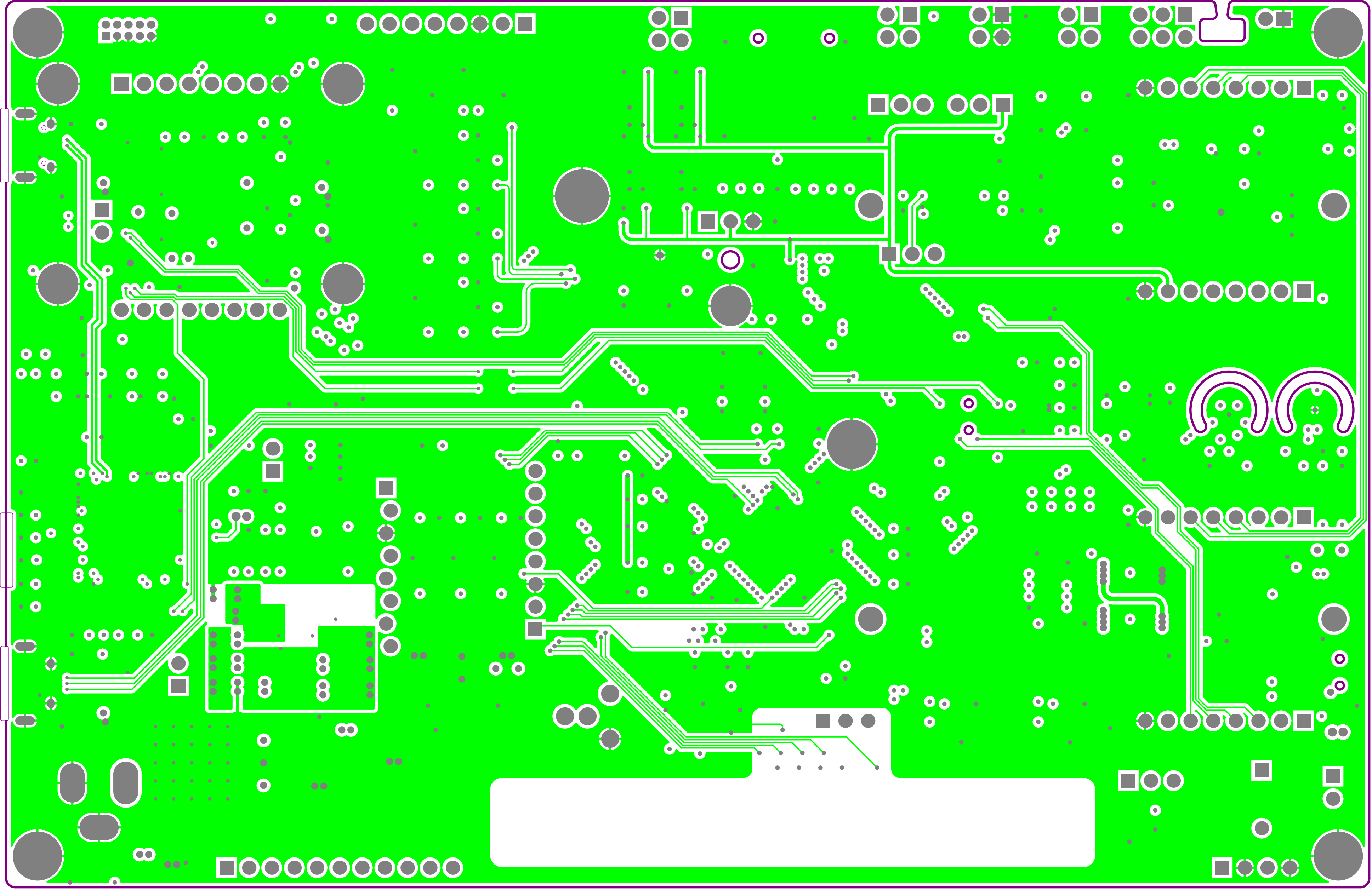












Bill of Materials

Production] of Project [APP055 v1.10.PrjPcb

Source Data From: APP055 v1.10.PrjPcb

Project: APP055 v1.10.PrjPcb

Variant:	Production
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Creation Date: 2025/12/25 1:45

Print Date:	45713	45713.44819
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Notes

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100%

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