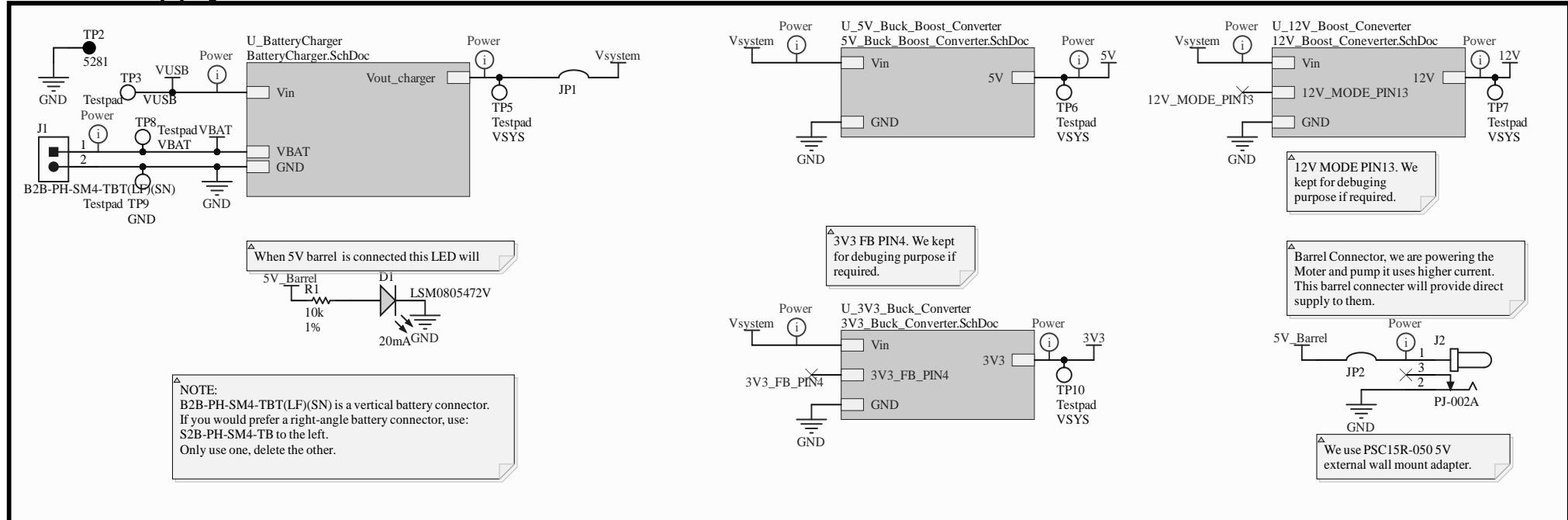


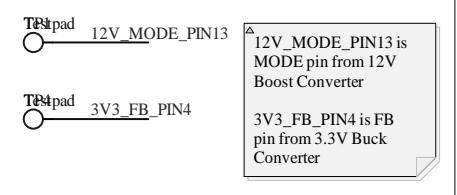
Power Supply



Notes

Section to add version notes or any other general information

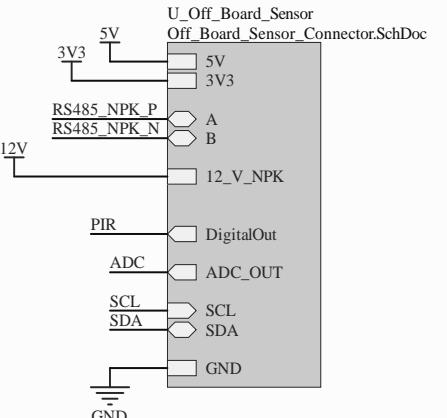
Test Points + Fiducials



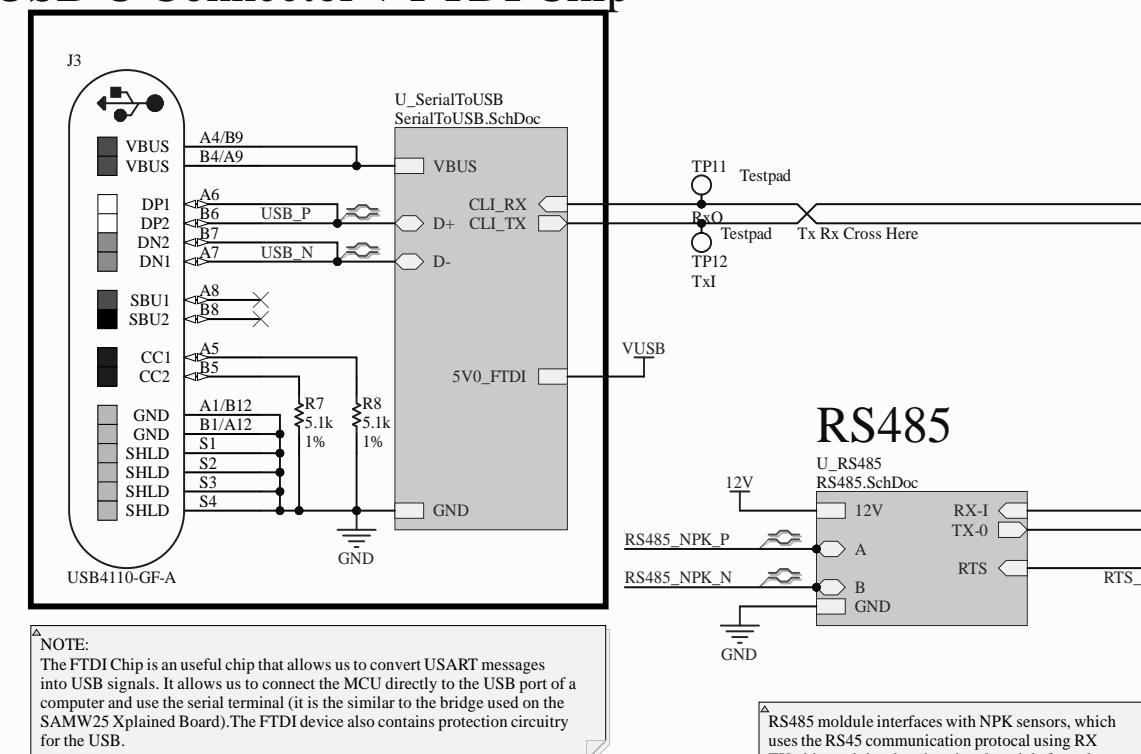
Add your power architecture here!

Don't forget:
0R jumpers in series with
your power lines
1x through hole test point
per power net

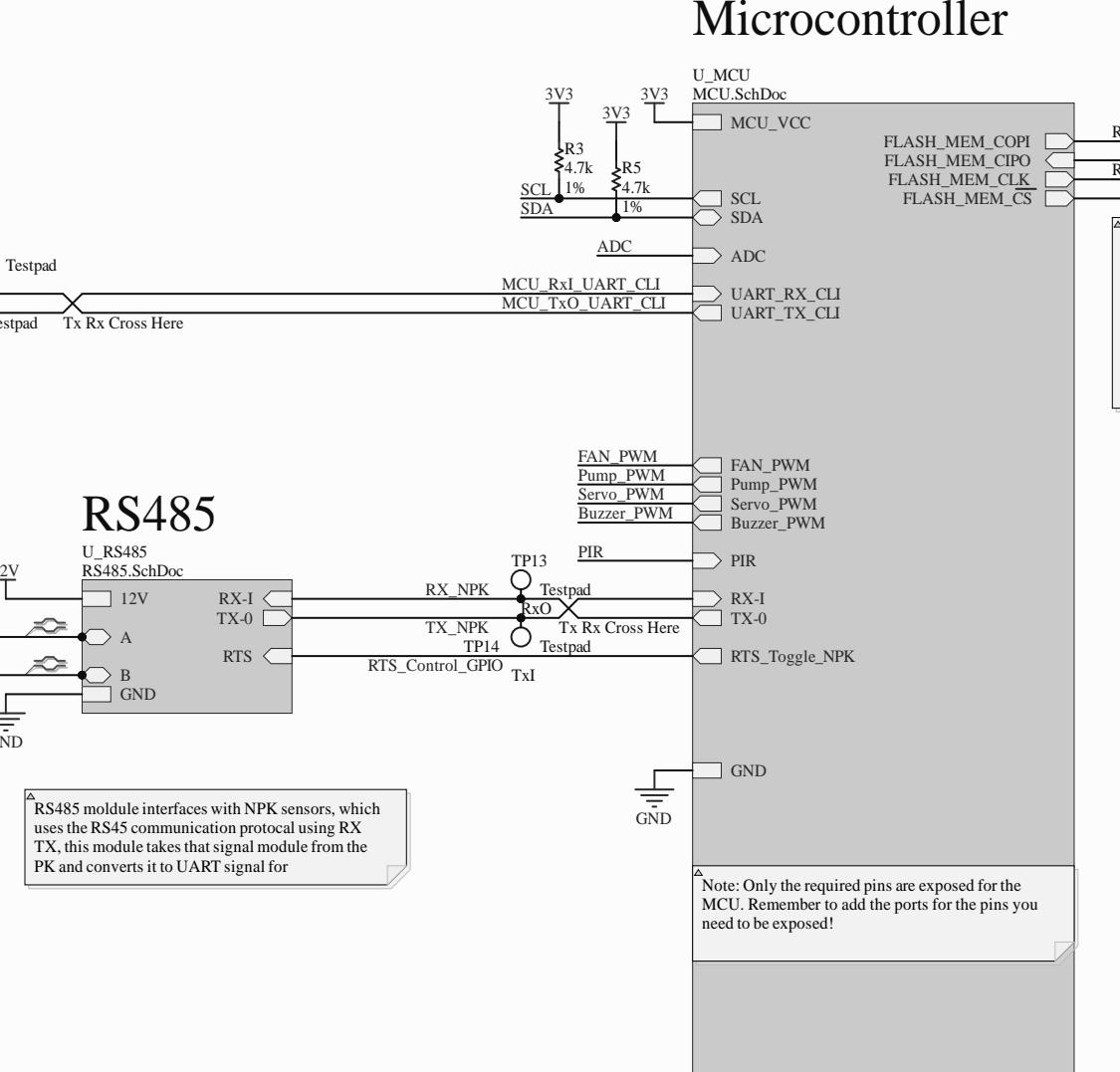
Off Board Sensors



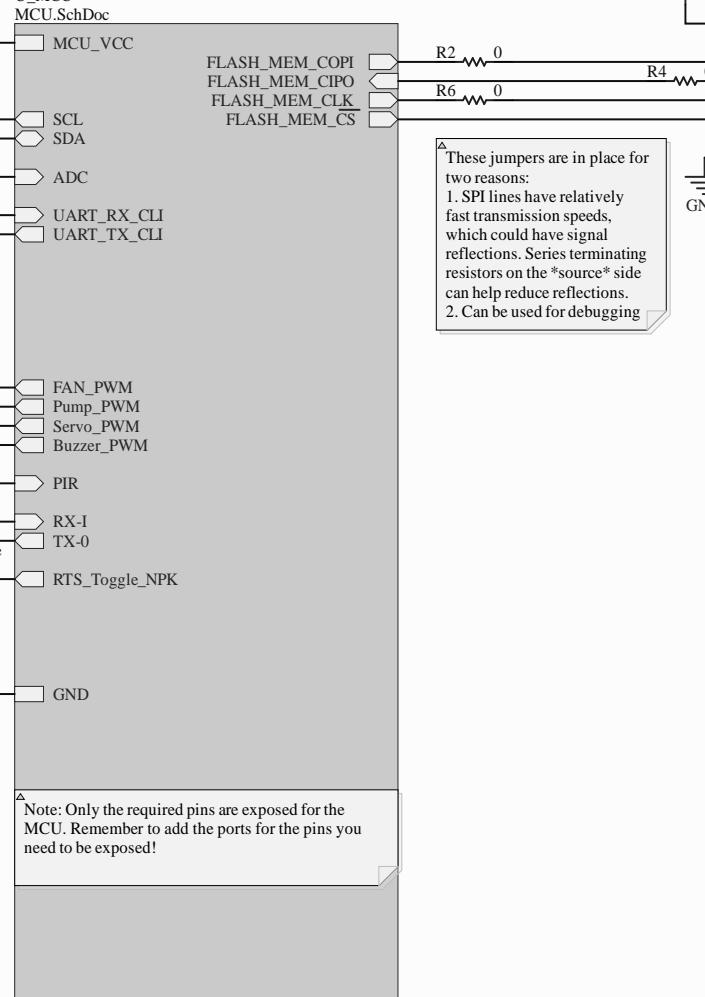
USB C Connector + FTDI Chip



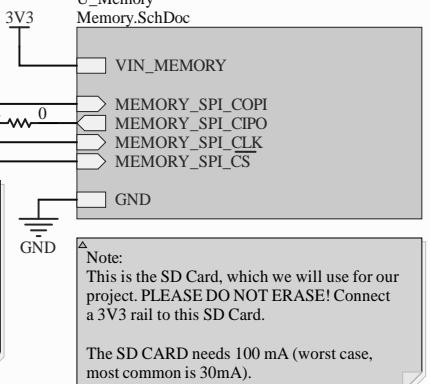
RS485



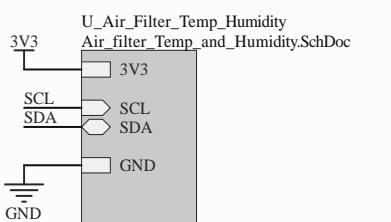
Microcontroller



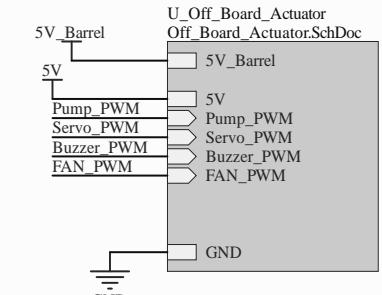
SD Card Memory



I2C sensors



Actuators



Title: Top Level.SchDoc

Desc: Top Sheet

Size: Letter Auth: Abhik & Toma Proj: ESE5160-T13DreamCatcher(Spring 2025).Pcb

VCS: a0cff16059821059d0a6e0870289f8002ca5aff9

Date: 3/5/2025 8:32:31 PM AD Ver. 25.1.2.22 Doc. * Sheet 1 of 12

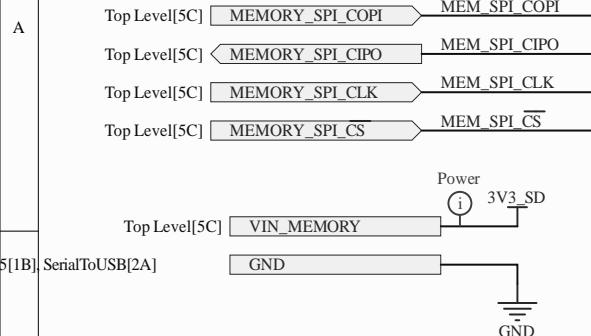
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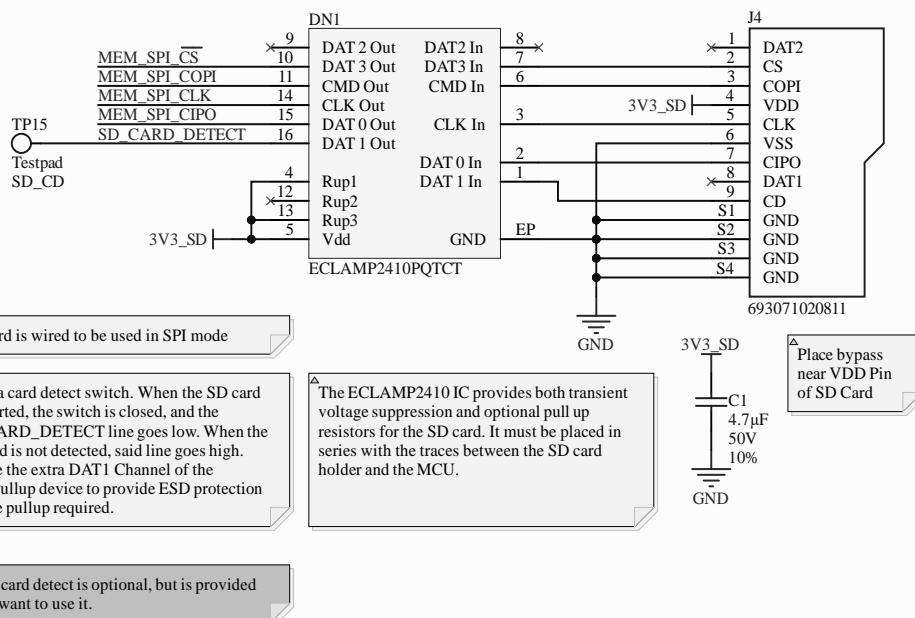
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SD CARD

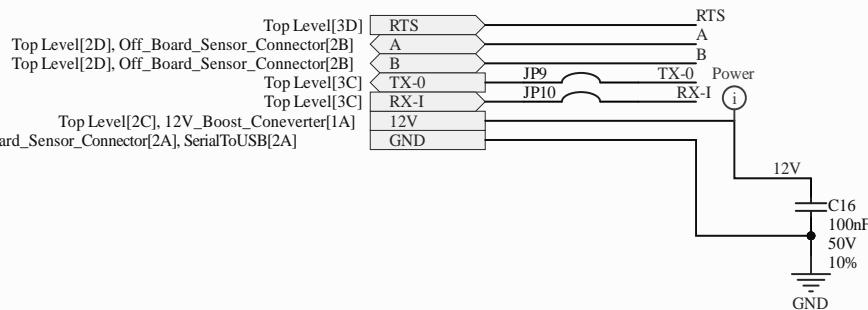


Title: **Memory.SchDoc**

Desc: SD Card

Size: Letter	Auth: Abhik & Toma	Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb
VCS: a0cf16059821059d0a6e0870289f8002ca5aff9		
Date: 3/5/2025 8:32:31 PM	AD Ver. 25.1.2.22	Doc. * Sheet 2 of 12
File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\1\Memory.SchDoc		Electrical and Systems Engineering

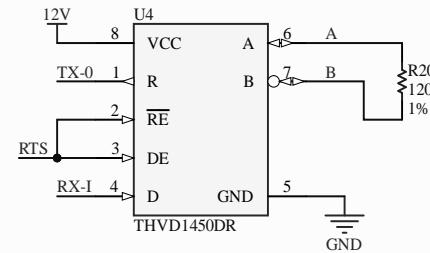
A



A: Bus input (complementary to B). Data is received from the RS485 data line A output of the NPK sensor

B: Bus input (complementary to A) Data is received from the RS485 data line B output of the NPK sensor

Ask TA and Nic. about how RS485 power the NPK sensor. Or They see the old Project and See how much volt are they using for the NPK sensor.



B

A

C

B

D

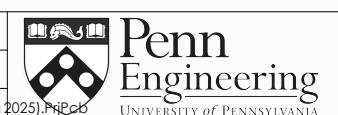
C

D

Title: **RS485.SchDoc**

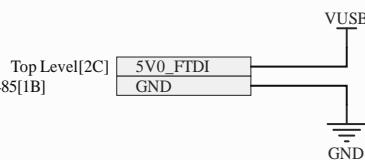
Desc:

Size: Letter	Auth: Abhik & Toma	Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb
VCS: a0cff16059821059d0a6e0870289f8002ca5aff9		
Date: 3/5/2025 8:32:31 PM	AD Ver. 25.1.2.22	Doc. * Sheet 3 of 12
File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\RS485.SchDoc		Electrical and Systems Engineering



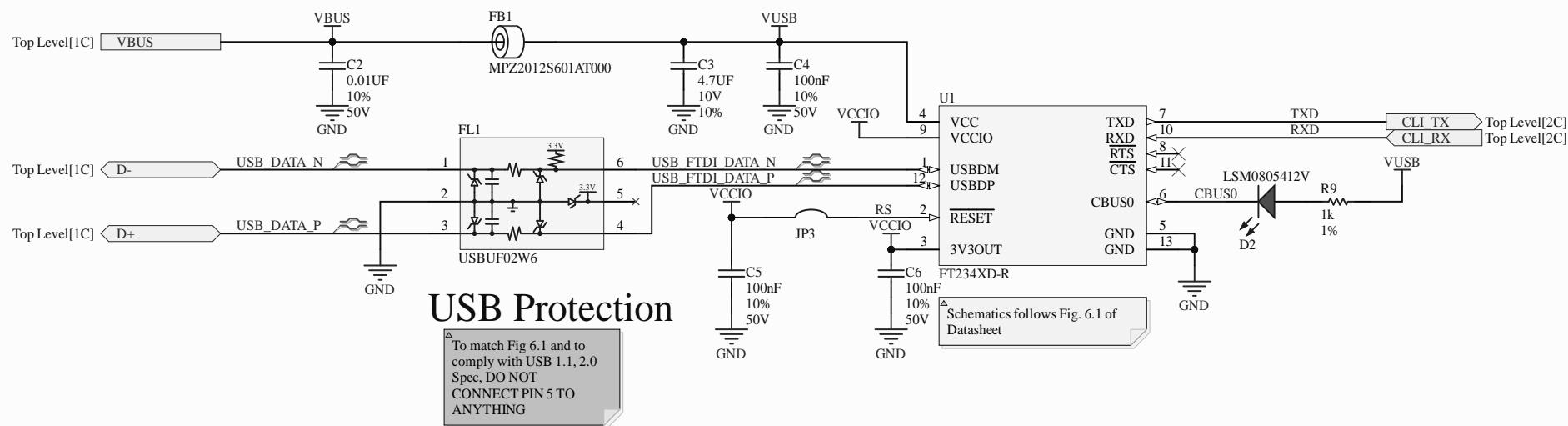
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A



A

USB to Serial FTDI Chip



B

C

D

Title: *SerialToUSB.SchDoc*

Desc: USB

Size: Letter Auth: Abhik & Toma Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb

VCS: a0cff16059821059d0a6e0870289f8002ca5aff9

Date: 3/5/2025 8:32:31 PM AD Ver. 25.1.2.22 Doc. * Sheet 4 of 12

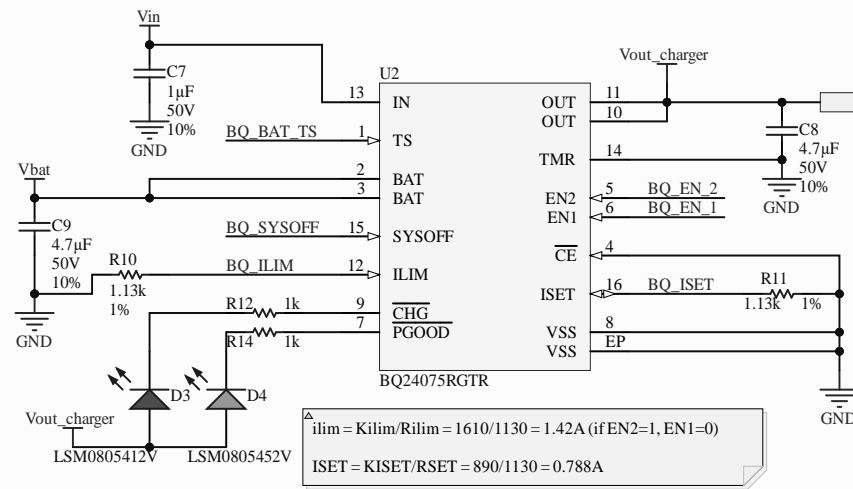
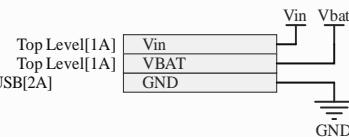
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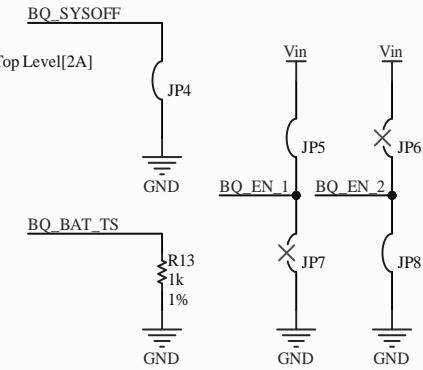
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[▲] Please see Table 1 of BQ24075 FOR current setup. You can change BQ EN1 and BQ EN 2 if you want! Currently with BQ EN 1 = 1 and BQ EN 2 = 2, the current from the USB is limited to 500 mA.



Title: **BatteryCharger.SchDoc**

Desc: Battery Charger

Size: Letter Auth: Abhik & Toma Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb

VCS: a0cf16059821059d0a6e0870289f8002ca5aff9

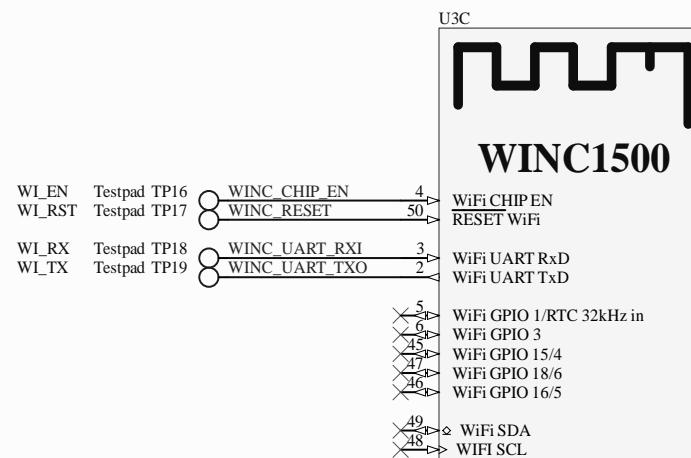
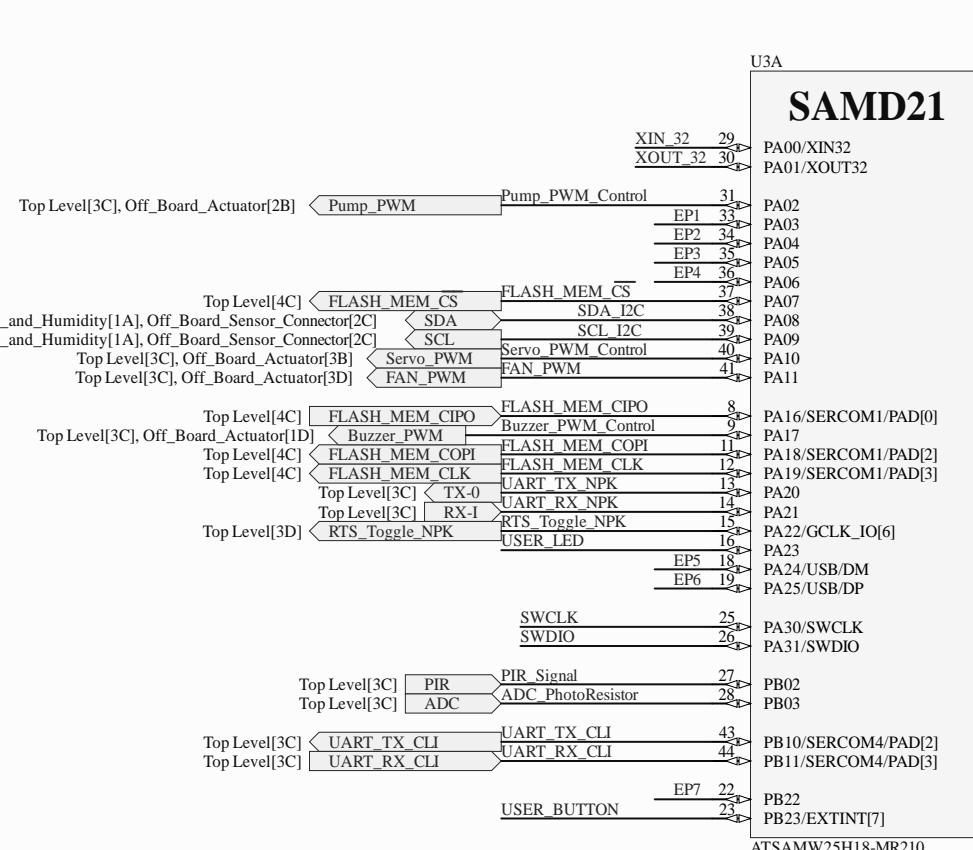
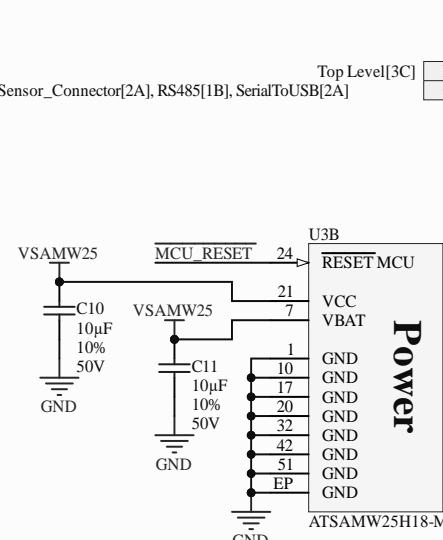
Date: 3/5/2025 8:32:32 PM AD Ver. 25.1.2.22 Doc. * Sheet 5 of 12

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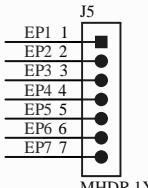
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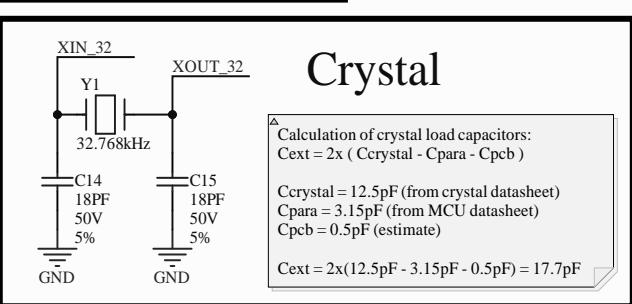
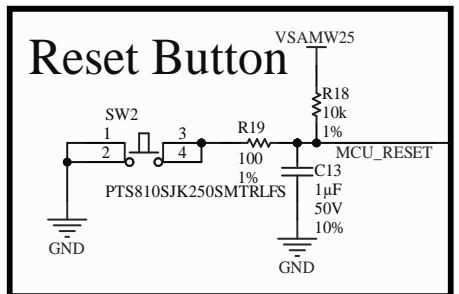
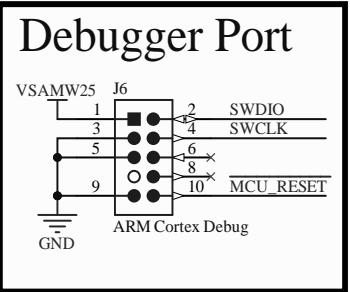
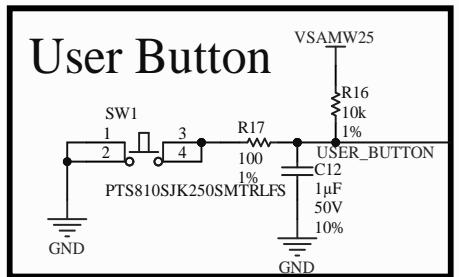
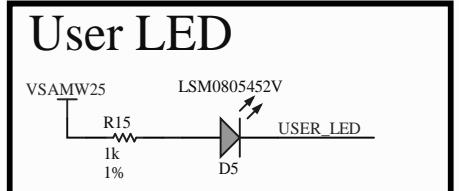


These following pins attach to the WINC1500, not the SAMD21, and must not be used in the design.

We pull some of these pins to SMT test points to help in later debugging.



Unused MCU pins with standard 0.1" header to pull out extra pin.



Title: **MCU.SchDoc**

Desc: MCU

Size: Letter

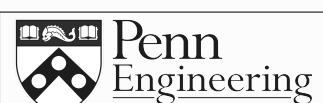
Auth: Abhik & Toma Proj: ESE5160-T13 DreamCatcher (Spring 2025).P4PCB

VCS: 00cff16059821059d0a6e0870289f8002ca5aff

Date: 3/5/2025 8:32:32 PM

AD Ver. 25.1.2.22 Doc. * Sheet 6 of 12

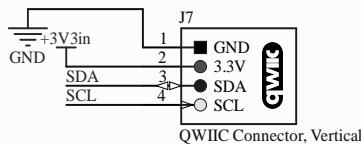
File: C:\Users\abhikum\AppData\Local\Temp\Releases\Snapshot\1\MCU.SchDoc



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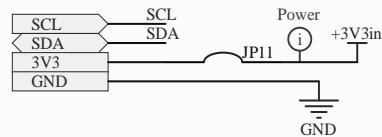
Electrical and Systems Engineering

A

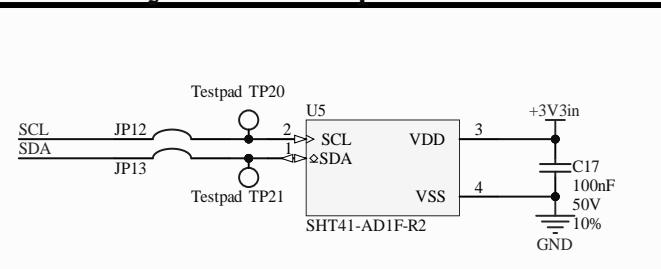


△ I2C Test Pin QWIIC for testing Purposes.

B



Humidity and Temperature Sensor



△ Humidity and Temperature Sensor using I2C. It uses zero Ohm resistor and jumper to reduce load. (SHT41-AD1B-R3)

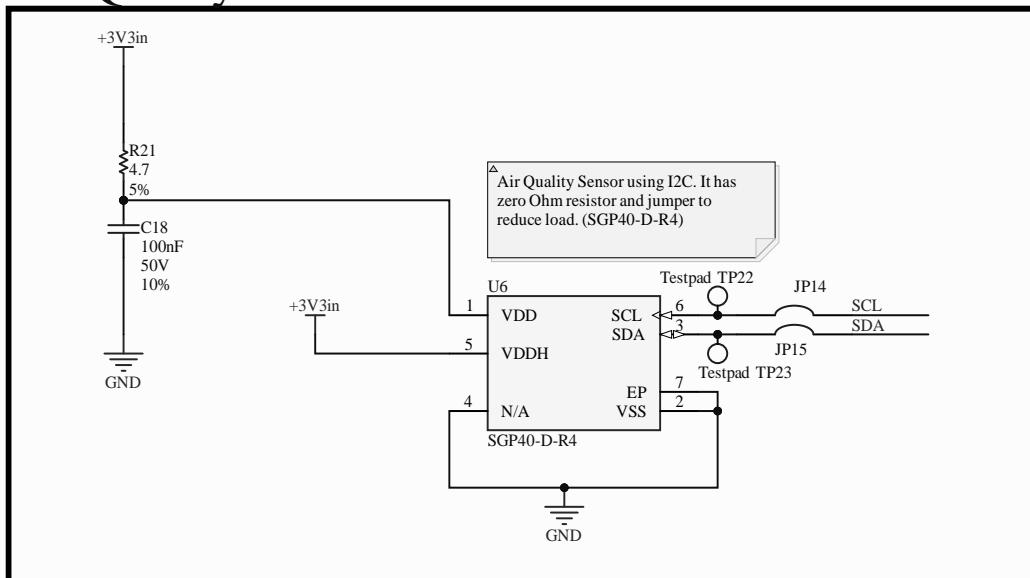
B

B

C

C

Air Quality Sensor



△ Air Quality Sensor using I2C. It has zero Ohm resistor and jumper to reduce load. (SGP40-D-R4)

D

D

Title: *Air_filter_Temp_and_Humidity.SchDoc*

Desc:

Size: Letter Auth: Abhik & Toma Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb

VCS: a0cff16059821059d0a6e0870289f8002ca5aff9

Date: 3/5/2025 8:32:32 PM AD Ver. 25.1.2.22 Doc. *

Sheet 7 of 12

File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\1\Air_filter_Temp_and_Humidity.SchDoc

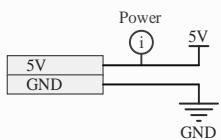


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MCU[1A], Top Level[6B], 5V_Buck_Boost_Converter[1A], Off_Board_Actuator[1A], Memory[1B], Off_Board_Actuator[1A], RS485[1B], SerialToUSB[2A]



Top Level[6B], 3V3_Buck_Converter[1A], Air_filter_Temp_and_Humidity[1A]

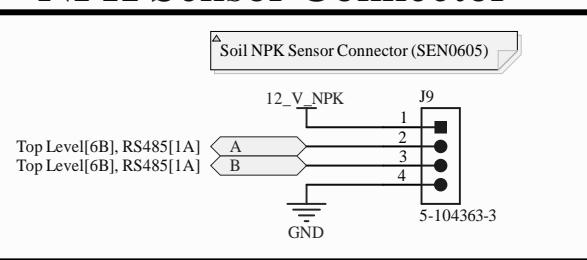
3V3

Top Level[6B] 12_V_NPK

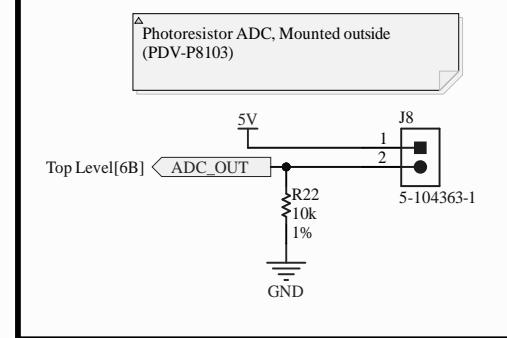
12_V_NPK

12_V_NPK

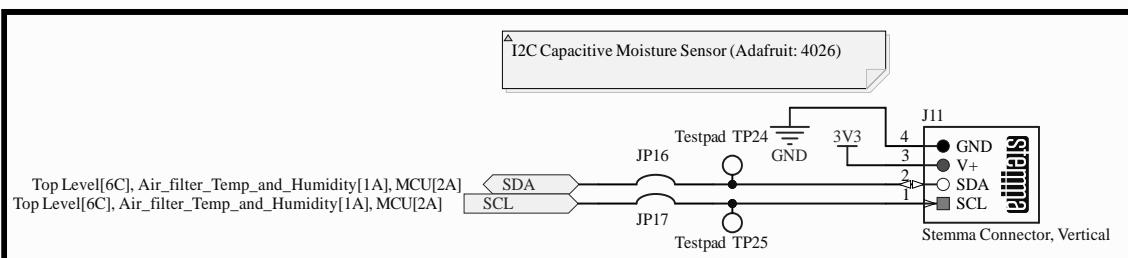
NPK Sensor Connector



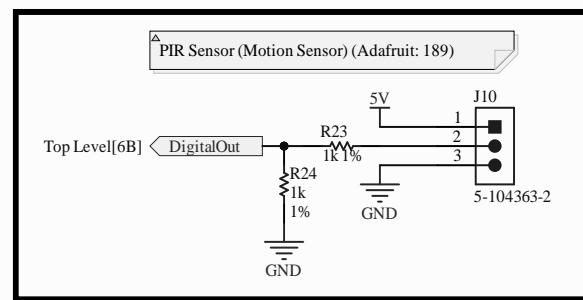
Photoresistor Connector



Moisture Sensor Connector



Motion Sensor Connector



Title: *Off_Board_Sensor_Connector.SchDoc*

Desc:

Size:

Letter

Auth: Abhik & Toma

Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb

VCS: a0cff16059821059d0a6e0870289f8002ca5aff9

Date: 3/5/2025 8:32:32 PM

AD Ver.

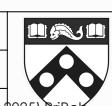
25.1.2.22

Doc. *

Sheet 8

of 12 Electrical and Systems Engineering

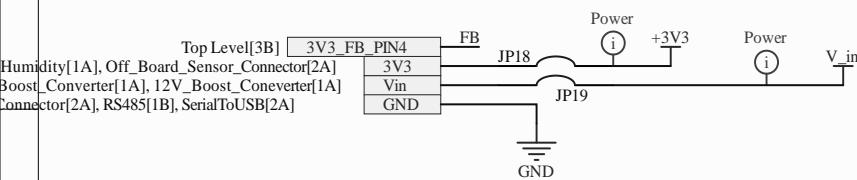
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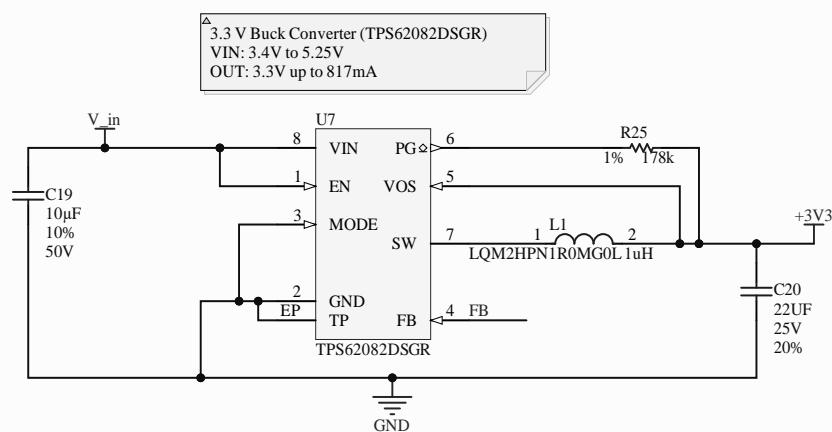
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A



B



C

D

Title: 3V3_Buck_Converter.SchDoc

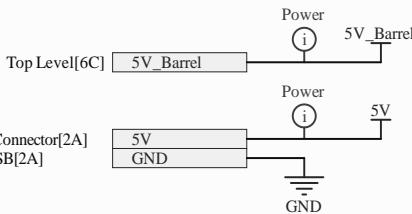
Desc:

Size: Letter	Auth: Abhik & Toma	Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb
VCS: a0cff16059821059d0a6e0870289f8002ca5aff9		
Date: 3/5/2025 8:32:32 PM	AD Ver. 25.1.2.22	Doc. * Sheet 9 of 12
File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\3V3_Buck_Converter.SchDoc		Electrical and Systems Engineering

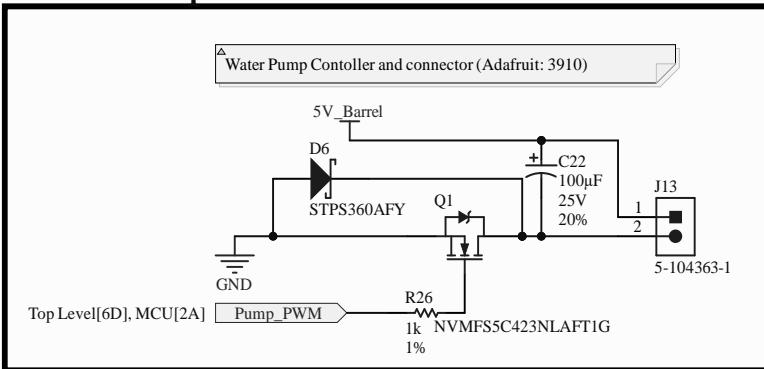


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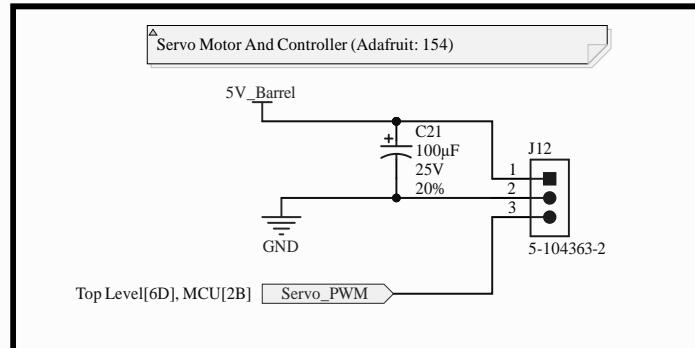
www.seas.upenn.edu



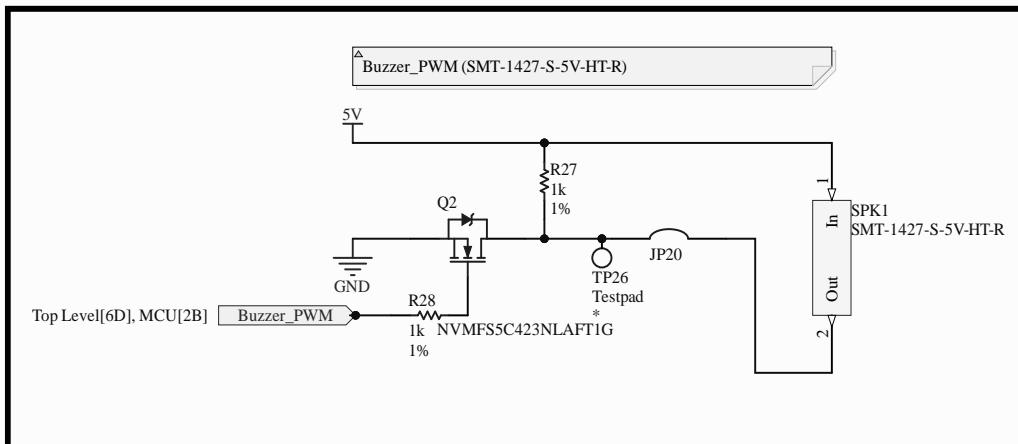
Water Pump Controller and Connector



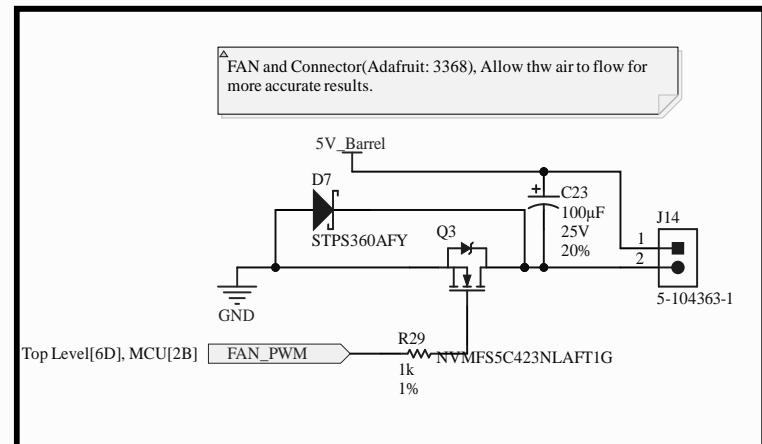
Servo Motor and Controller



Buzzer



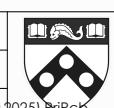
Fan and Connector



Title: *Off_Board_Actuator.SchDoc*

Desc:

Size: Letter	Auth: Abhik & Toma	Proj: ESE5160-T13 DreamCatcher (Spring 2025).Pcb
VCS: a0cff16059821059d0a6e0870289f8002ca5aff9		
Date: 3/5/2025 8:32:32 PM	AD Ver. 25.1.2.22	Doc. * Sheet 10 of 12
File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\1\Off_Board_Actuator.SchDoc		Electrical and Systems Engineering

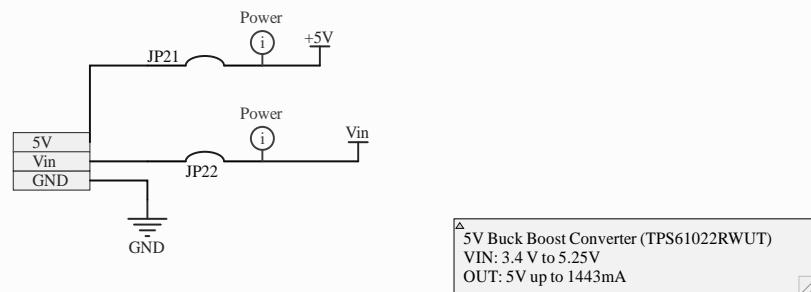


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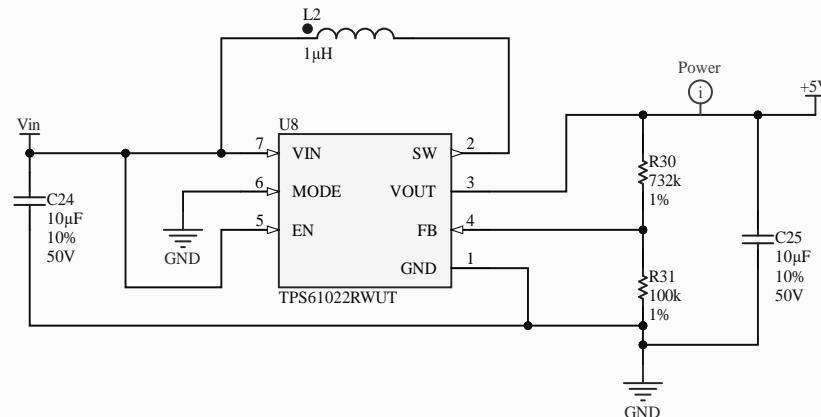
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A

vel[3A], Off_Board_Actuator[1A], Off_Board_Sensor_Connector[2A]
 Top_Level[3A], 3V3_Buck_Converter[1A], 12V_Boost_Converter[1A]
 Off_Board_Sensor_Connector[2A], RS485[1B], SerialToUSB[2A]



B



C

D

Title: 5V_Buck_Boost_Converter.SchDoc

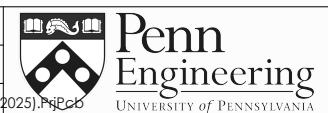
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Date: 3/5/2025 8:32:32 PM AD Ver. 25.1.2.22 Doc. * Sheet 11 of 12 Electrical and Systems Engineering

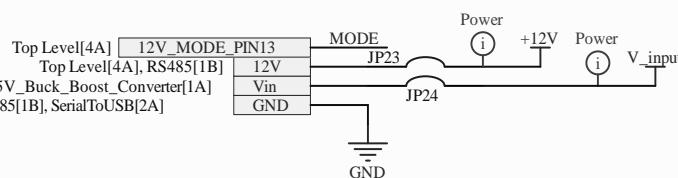
File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\\5V_Buck_Boost_Converter.SchDoc



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A

A



Inverter[1A], 5V_Buck_Boost_Converter[2A], RS485[1B], SerialToUSB[2A]

E

C

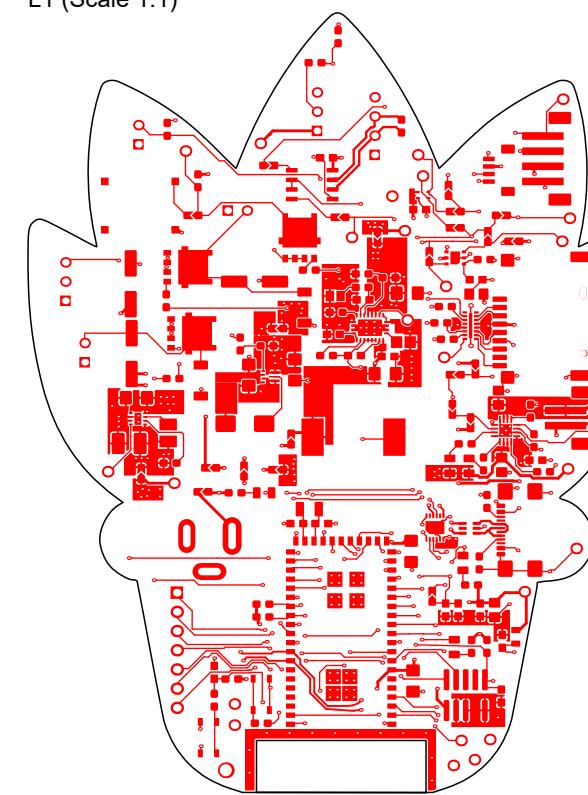
6

D

1

Title: 12V_Boost_Coneverter.SchDoc		 Penn Engineering UNIVERSITY of PENNSYLVANIA
Desc:		
Size: Letter	Auth: Abhik & Toma	Proj: ESE5160 - T13 DreamCatcher (Spring 2025).PrjPCB
VCS: a0cff16059821059d0a6e0870289f8002ca5aff9		www.seas.upenn.edu
Date: 3/5/2025 8:32:32 PM	AD Ver. 25.1.2.22	Electrical and Systems Engineering
File: C:\Users\abhikkum\AppData\Local\TempReleases\Snapshot\1\12V_Boost_Coneverter.SchDoc		

L1 (Scale 1)

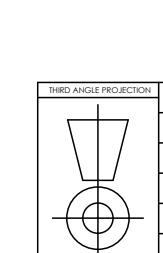


Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material	0.03mm(1.00mil)	PSR-4000BN DI Colors	Solder Mask	GTS
	Nickel, Gold	0.00mm(0.16mil)		Surface Finish	
	Copper	L1	0.04mm(1.38mil)	Signal	GTL
	Core	0.20mm(7.96mil)	FR408HR 2113	Dielectric	
	Copper	L2 (GND)	0.02mm(0.69mil)	Signal	G1
		0.99mm(39.00mil)	FR408HR	Dielectric	
	Copper	L3 (Power)	0.02mm(0.69mil)	Signal	G2
	Core	0.20mm(7.96mil)	FR408HR 2113	Dielectric	
	Copper	L4	0.04mm(1.38mil)	Signal	GBL
	Nickel, Gold	0.00mm(0.16mil)		Surface Finish	
	Surface Material	0.03mm(1.00mil)	PSR-4000BN DI Colors	Solder Mask	GBS
	Board Layer Stack Bottom Overlay			Legend	GBO

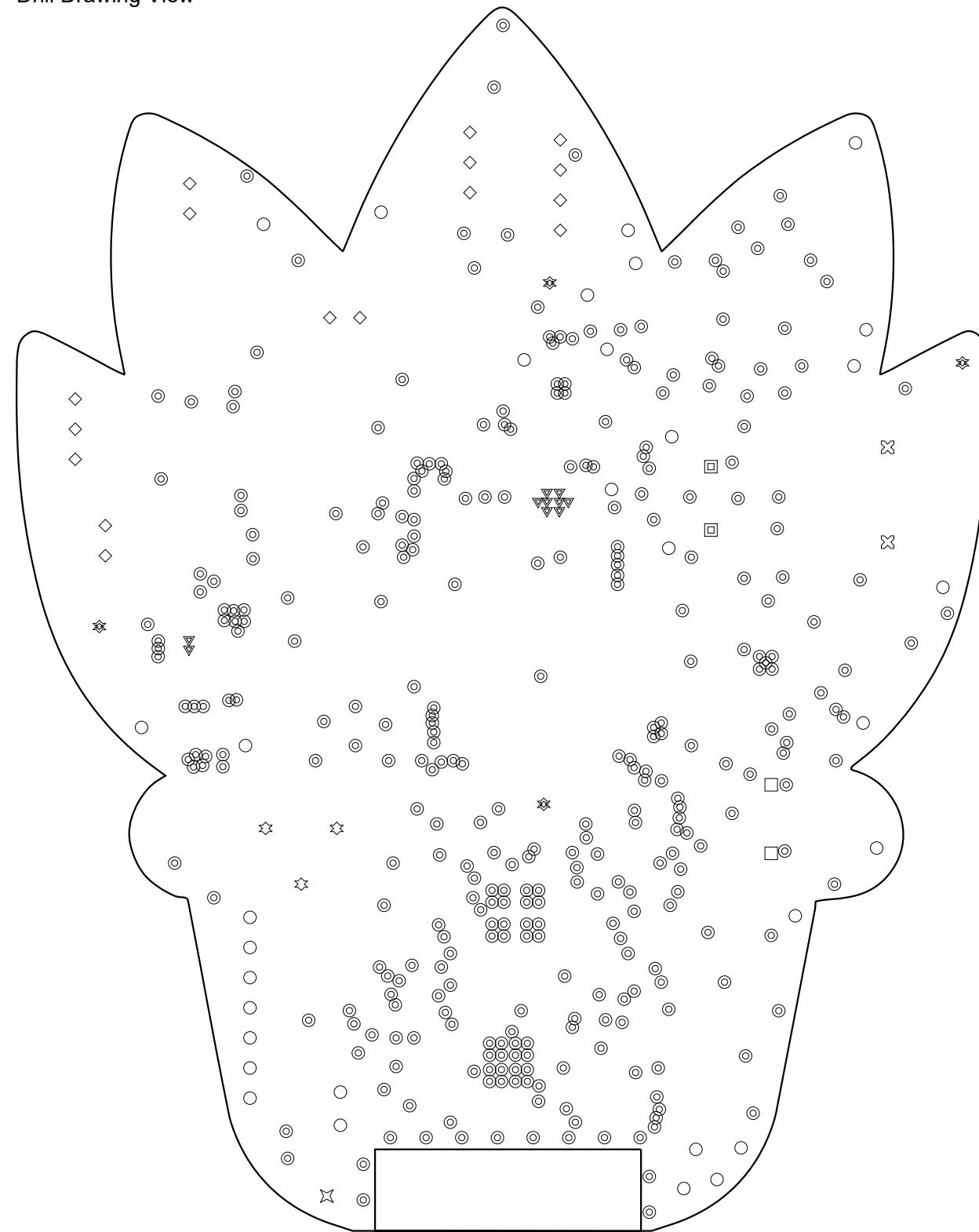
Manufacturing Notes

- 1 All layers are unmirrored - you should be able to "see straight through"
 - 2. Controlled Dielectric: NO
 - 3. Controlled Impedance: NO
 - 4. Thickness tolerance +/-10%
 - 5 UL Marking Required: NO
 - 6. RoHS Marking: NO
 - 7. ITAP: NO



PART NO: =PCB_PART_NUMBER			
APPROVALS	DATE		
ENGINEER: =PCB_ENGINEER	=PCB_ENGINEER	 <small>TM</small>	
DESIGNER: =PCB_DESIGNER	=PCB_DESIGNER		
CHECKER: =PCB_CHECKER	=PCB_CHECKER		
Reference Documents			
BOM DOC: =DOC_NO_BOM	DESIGN ITEM: SRC-ESE5160 - T13		DESIGN ITEM REVISION: A.4
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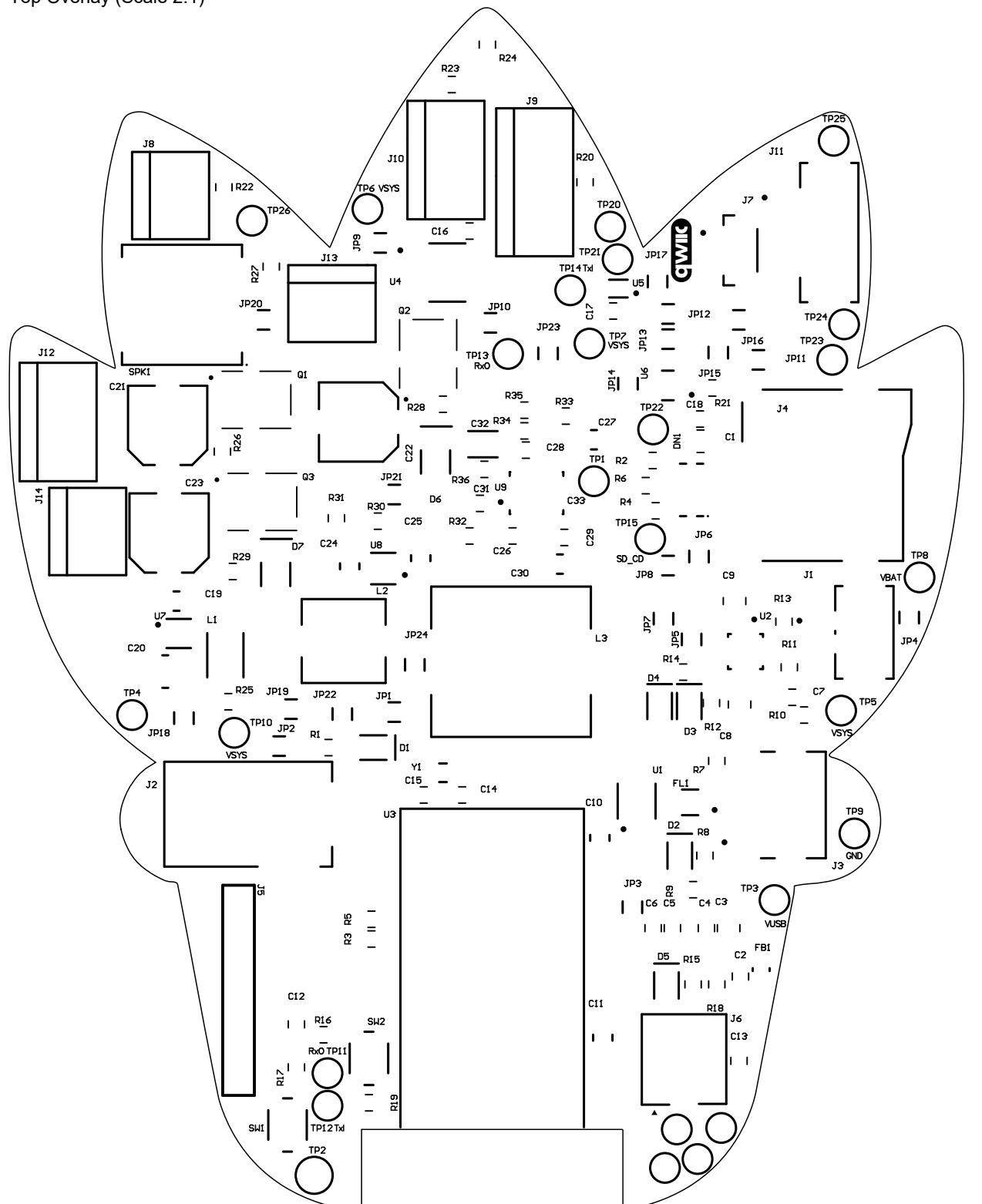
Drill Drawing View



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
✖	4	2.00mm(78.74mil)	Non-Plated	
○	32	1.02mm(40.00mil)	Plated	
✖	3	1.00mm(39.37mil)	Plated	
◇	16	0.89mm(35.04mil)	Plated	
✖	2	0.90mm(35.43mil)	Non-Plated	
□	2	0.65mm(25.59mil)	Non-Plated	
✖	1	1.60mm(62.99mil)	Plated	
○	339	0.20mm(8.00mil)	Plated	
▼	10	0.20mm(7.87mil)	Plated	
□	2	0.32mm(12.50mil)	Plated	

Top Overlay (Scale 2:1)



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SHEET					

ZONE	REV	DESCRIPTION	DATE	APPROVED

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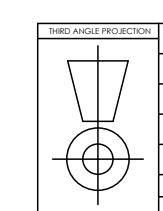
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Altium
SRC-ESE5160 - T13 A.4

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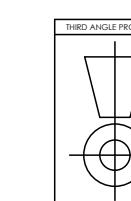
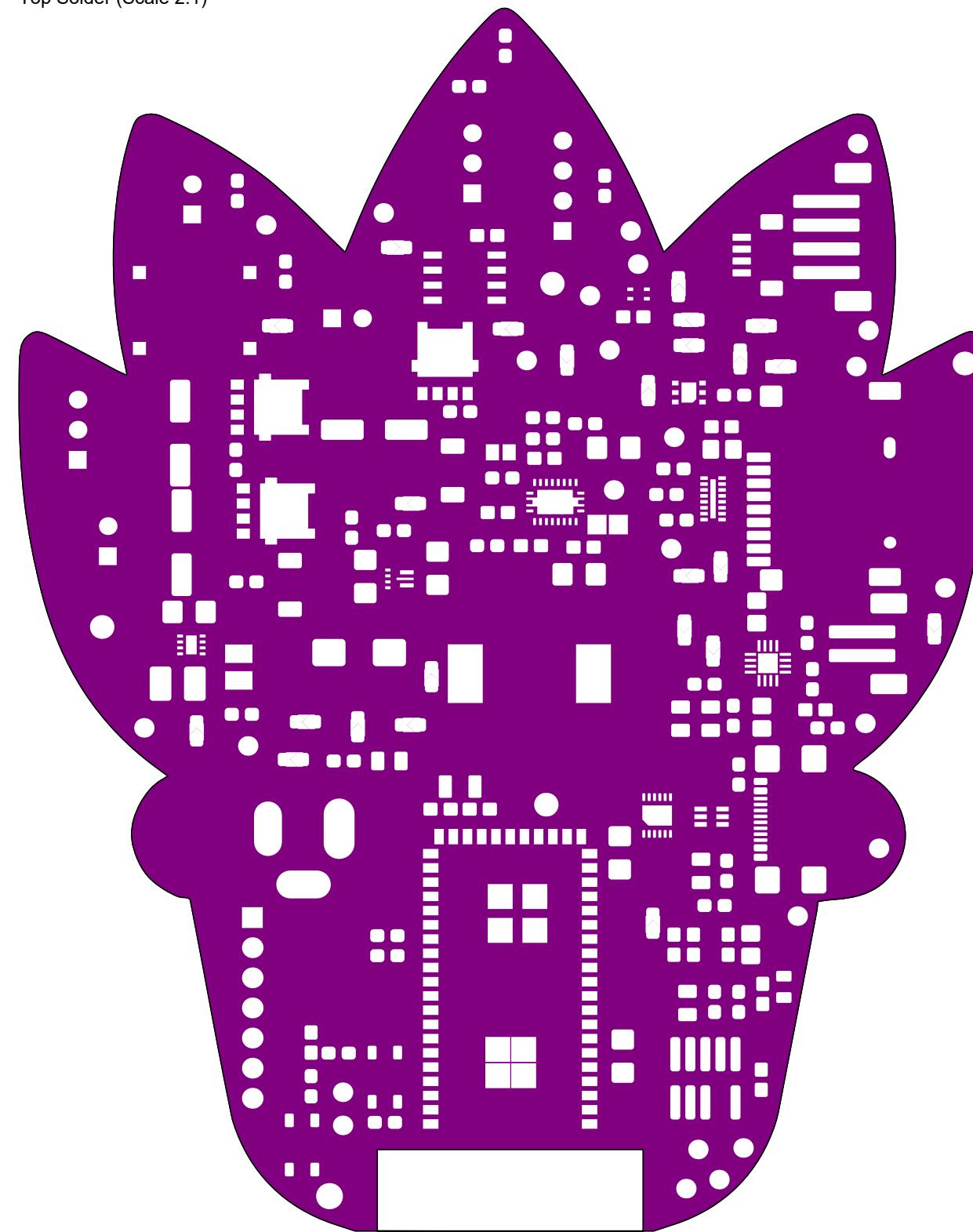
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Top Solder (Scale 2:1)



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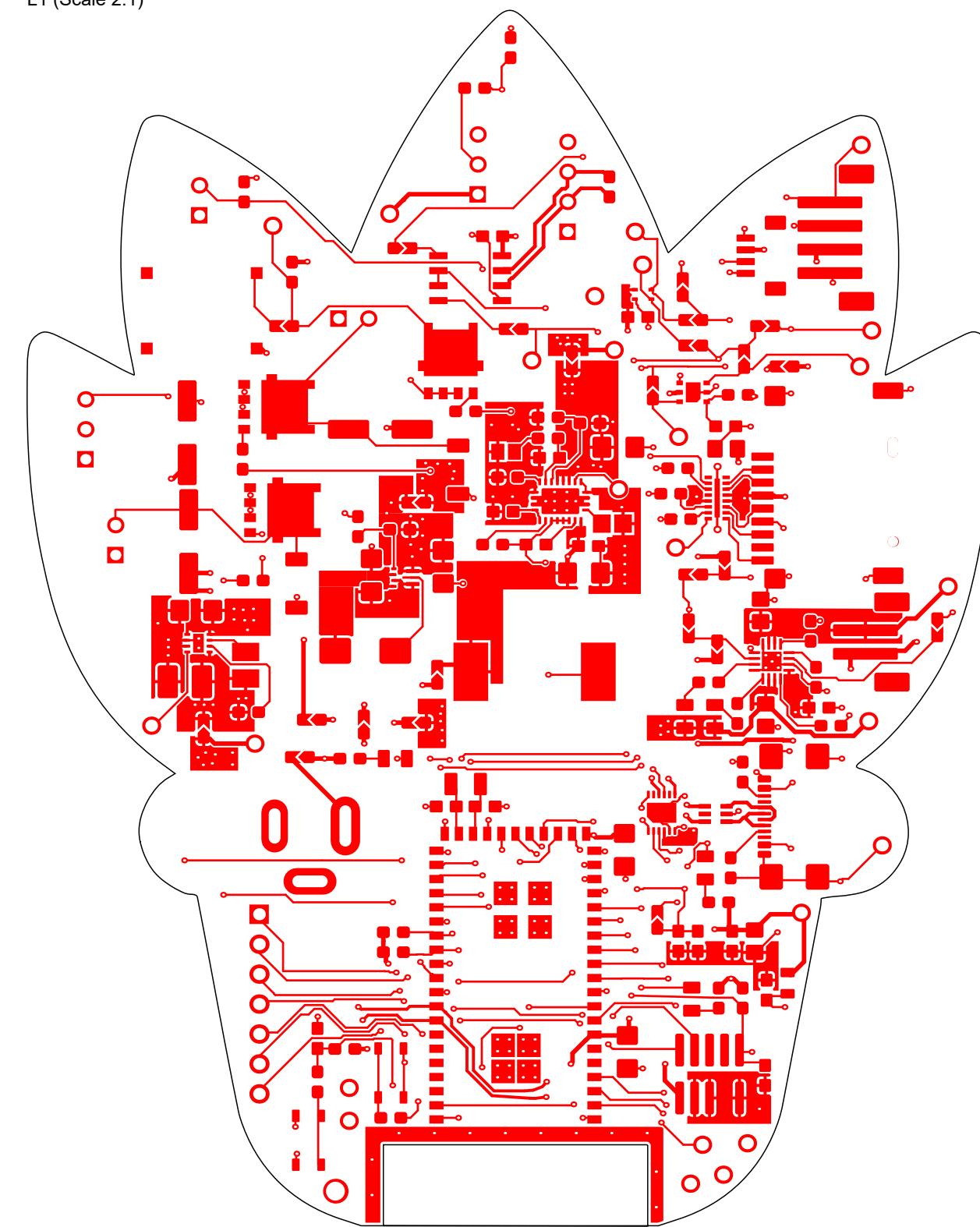
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L1 (Scale 2:1)



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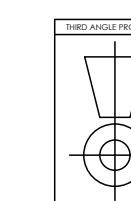
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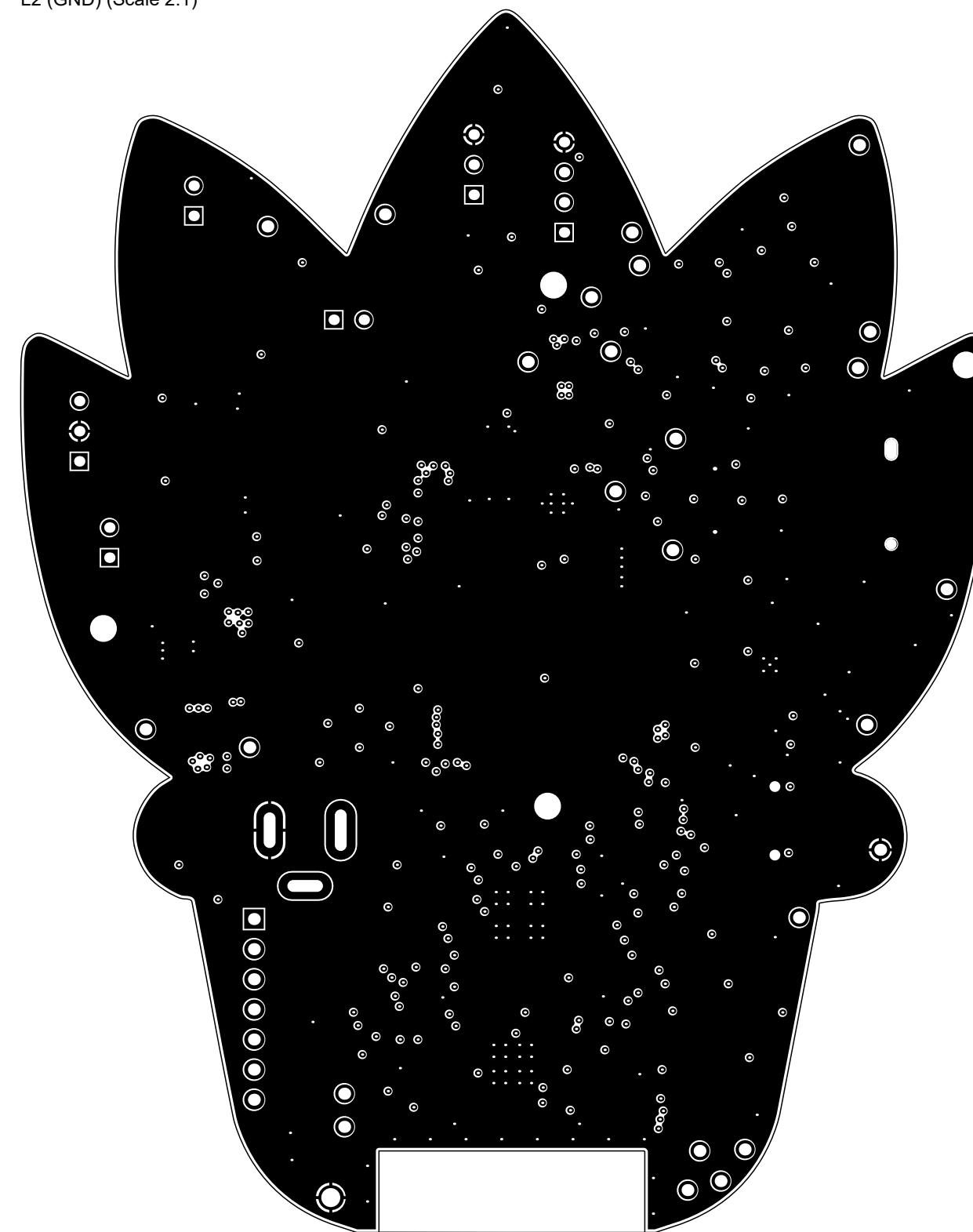
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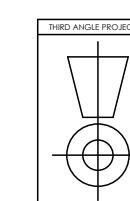
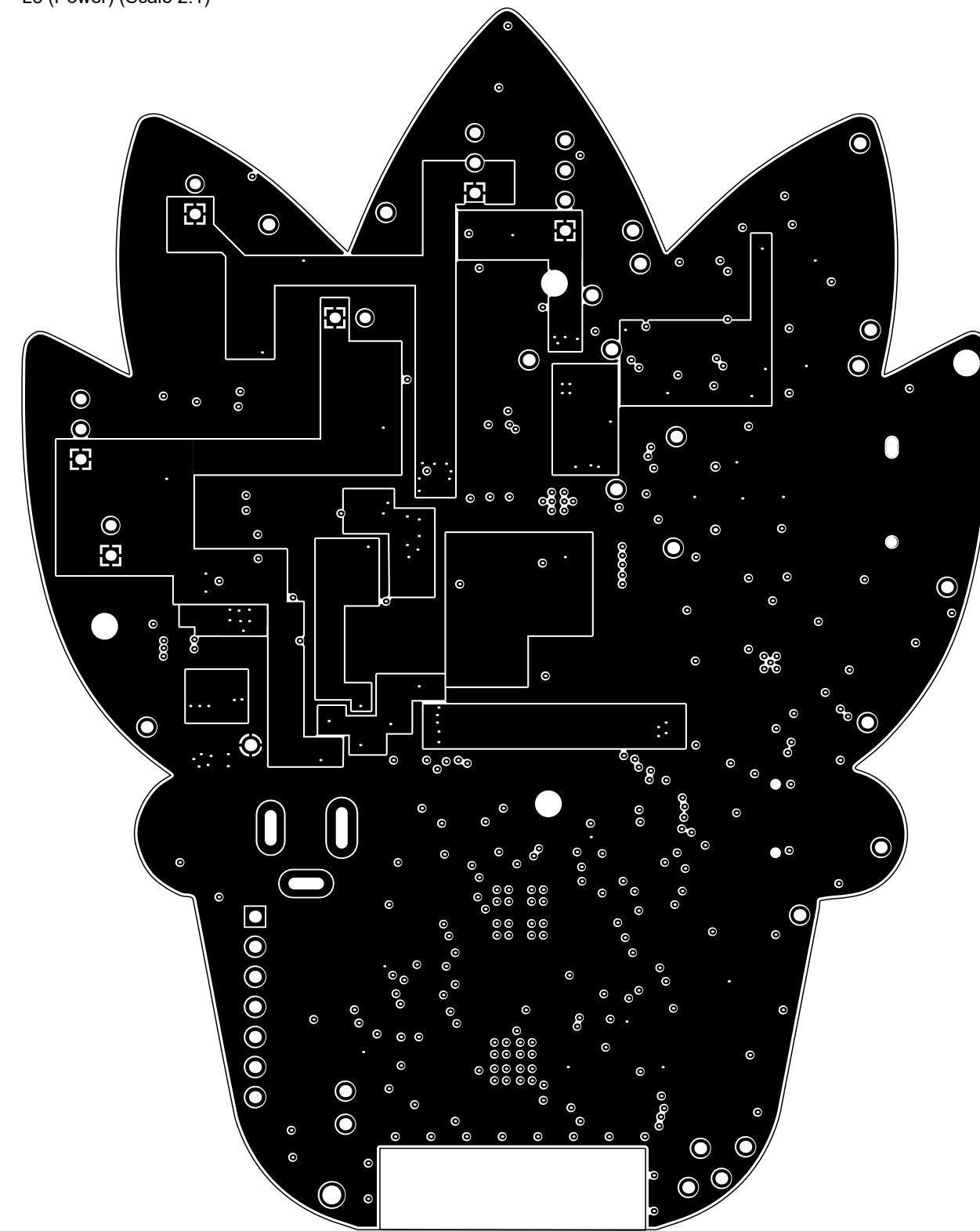
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L3 (Power) (Scale 2)



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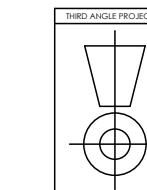
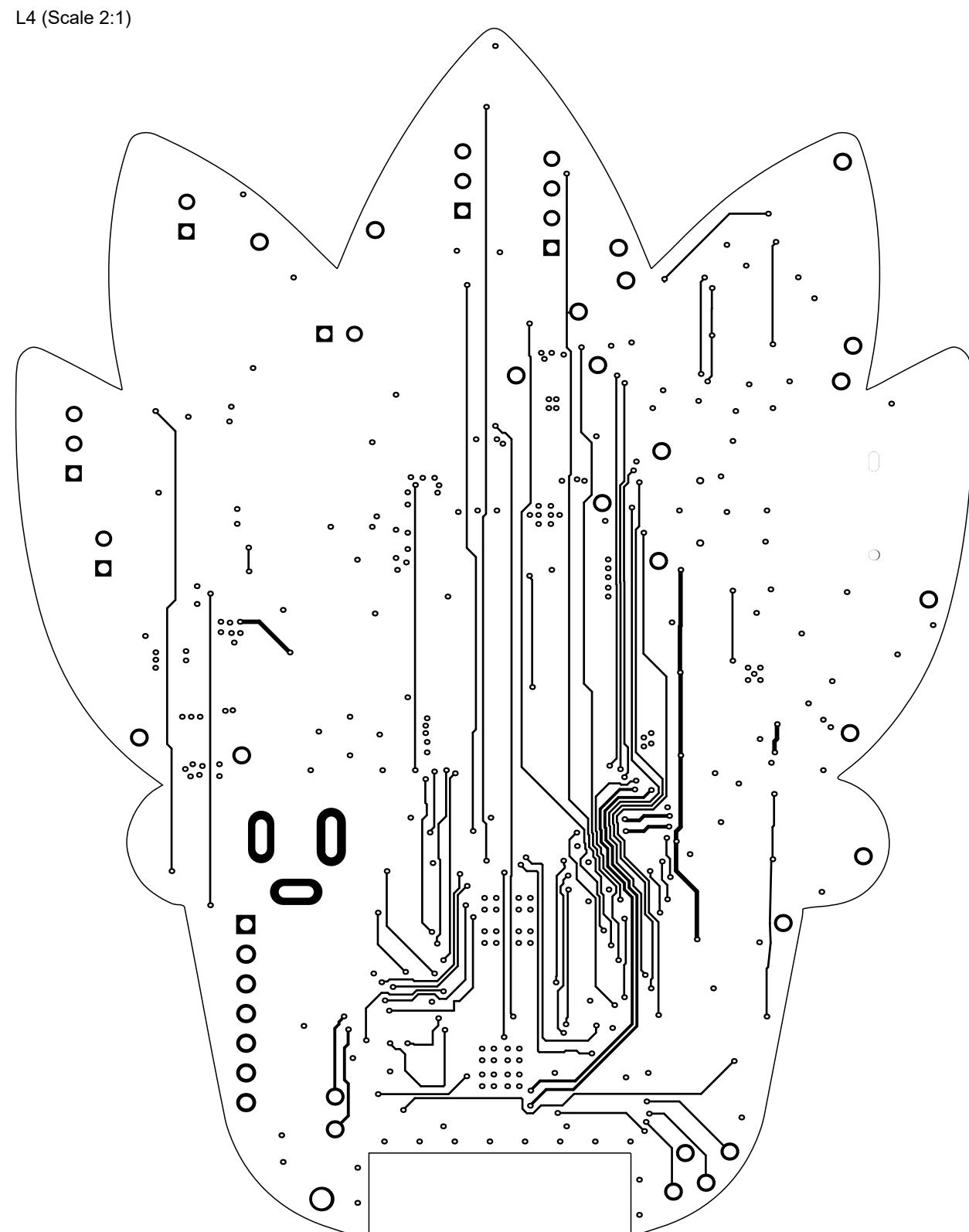
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Altium
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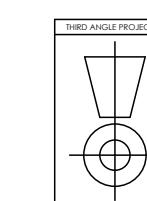
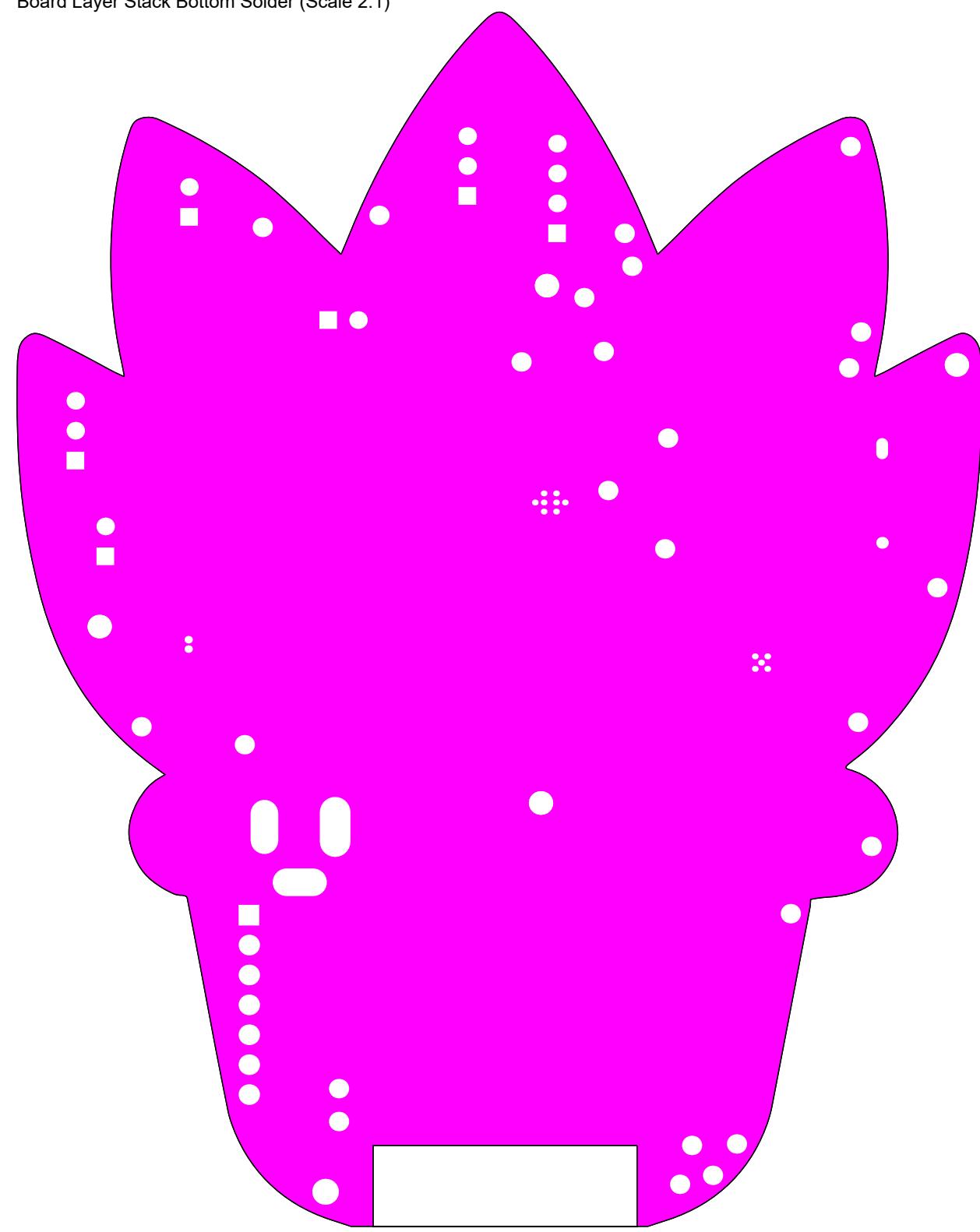
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Board Layer Stack Bottom Solder (Scale 2:1)



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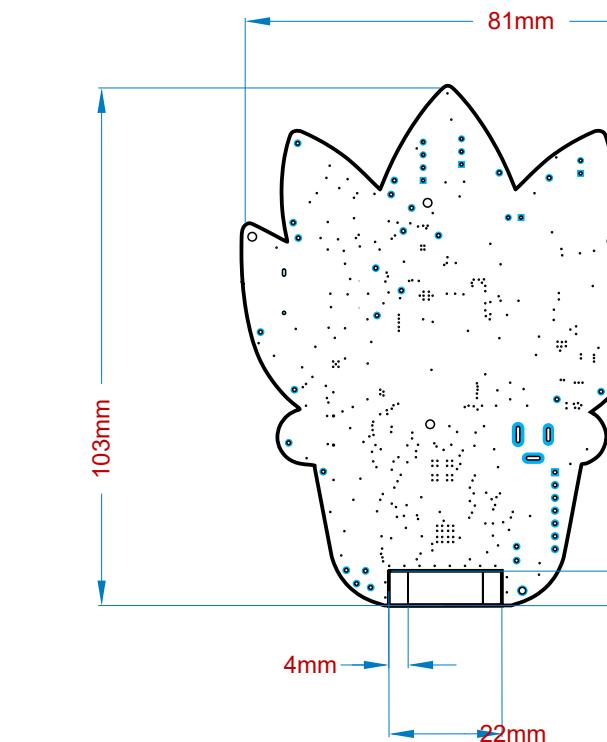
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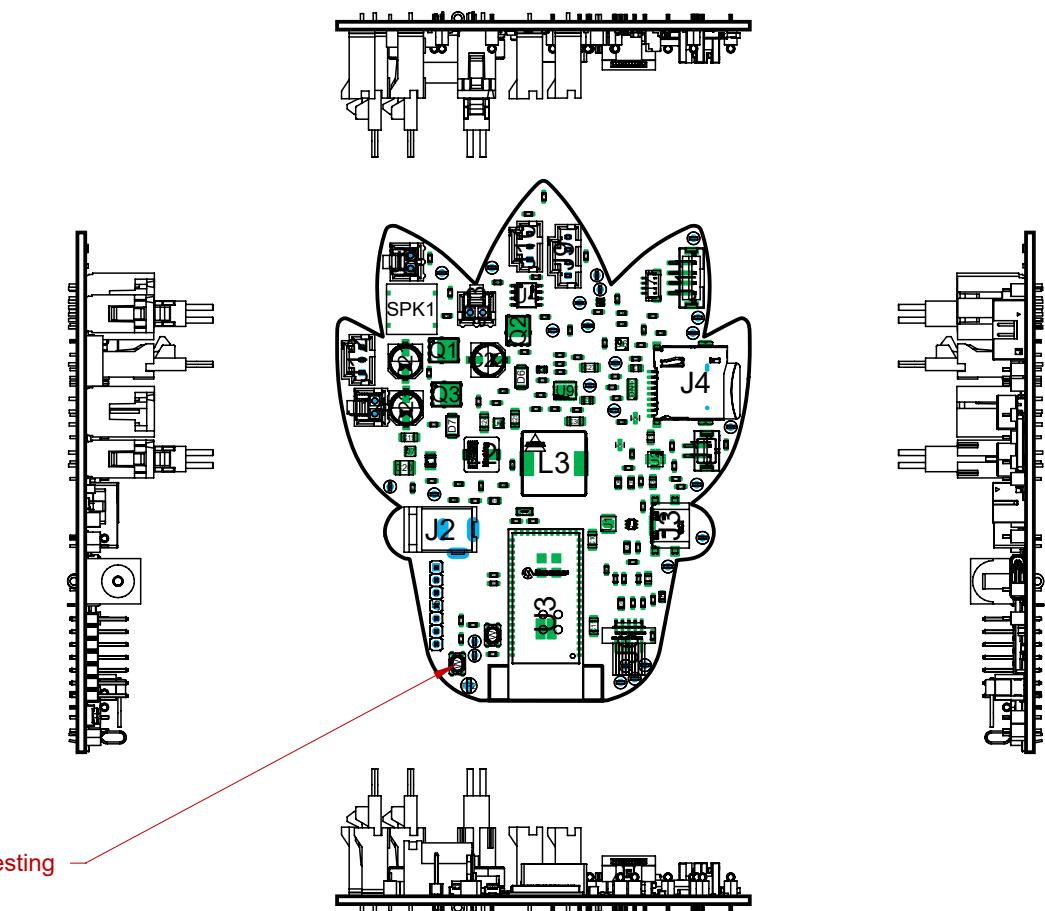
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Button for testing



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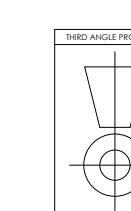
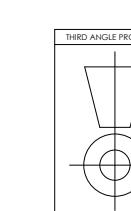
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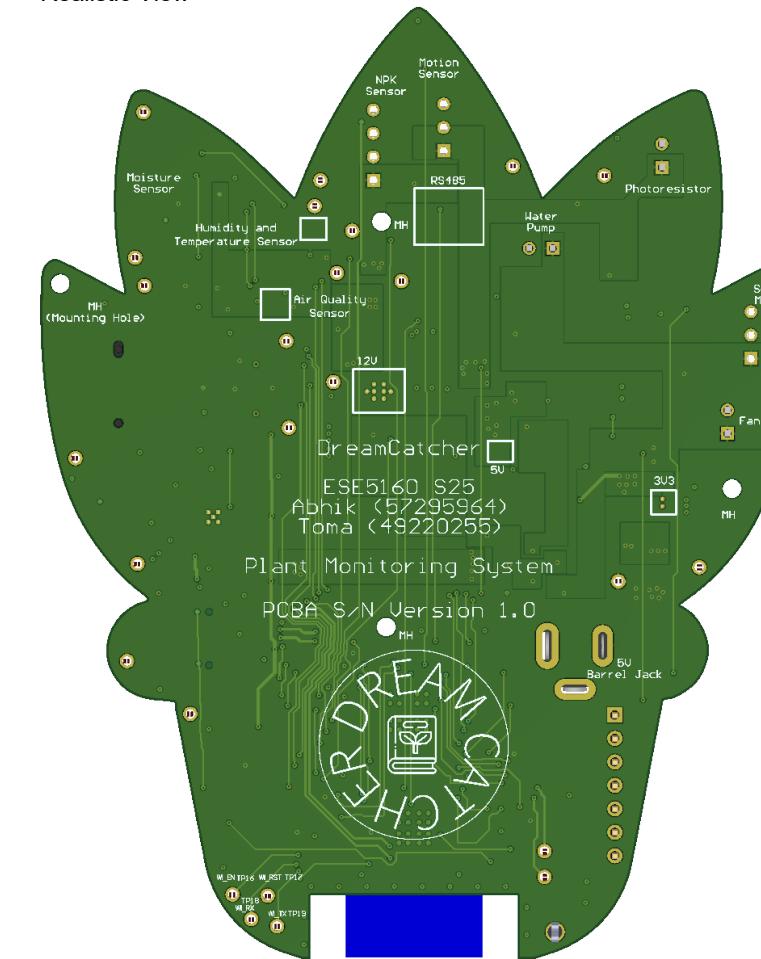
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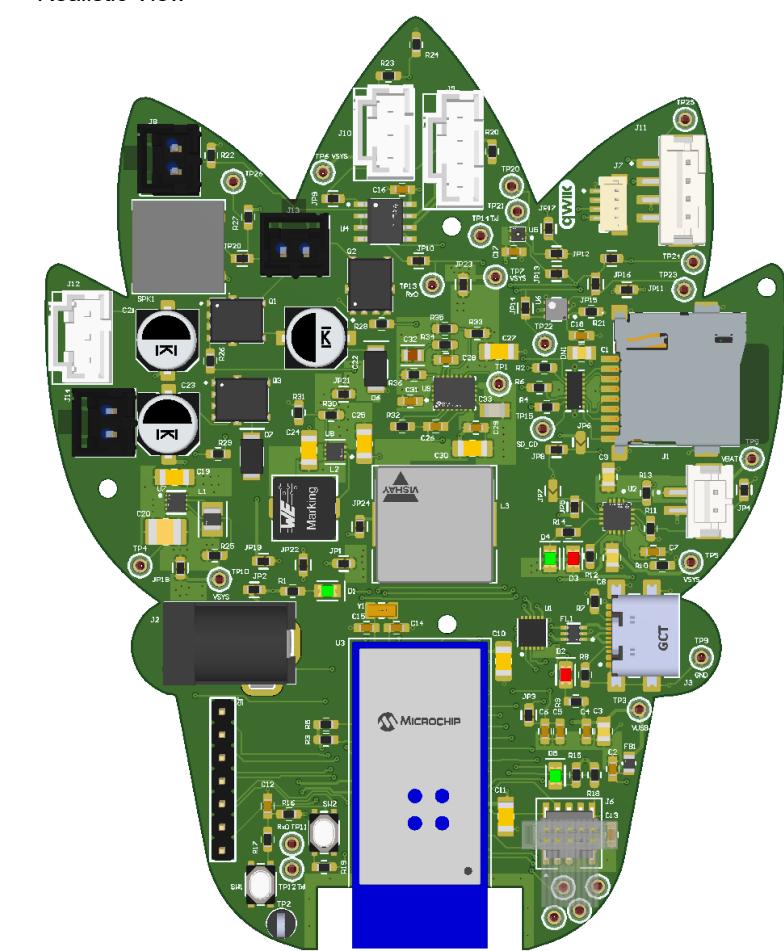


APPLICATION

Realistic Vie



Realistic View



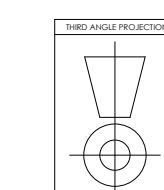
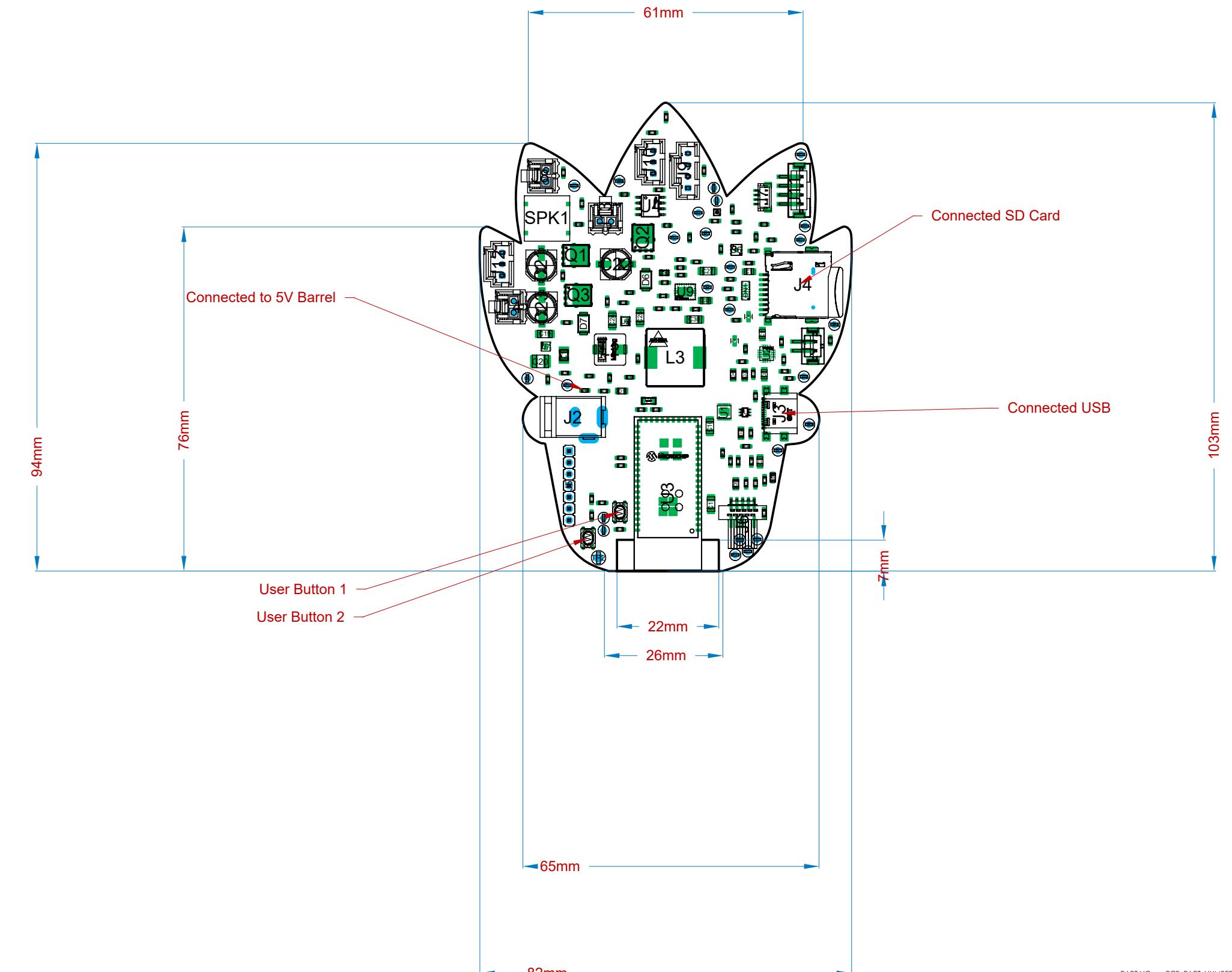
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Altium™ SRC-ESE5160 - T13 DESIGN ITEM REVISION: A.4

A.

A technical drawing illustrating Third Angle Projection. It features a truncated cone positioned above a base circle. The base circle contains two smaller concentric circles, representing a hole or bore. The drawing is enclosed in a rectangular border with the text "THIRD ANGLE PROJ" at the top.



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Altium

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A.

