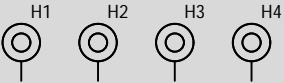


Project : IoT GREENHOUSE MVP#1

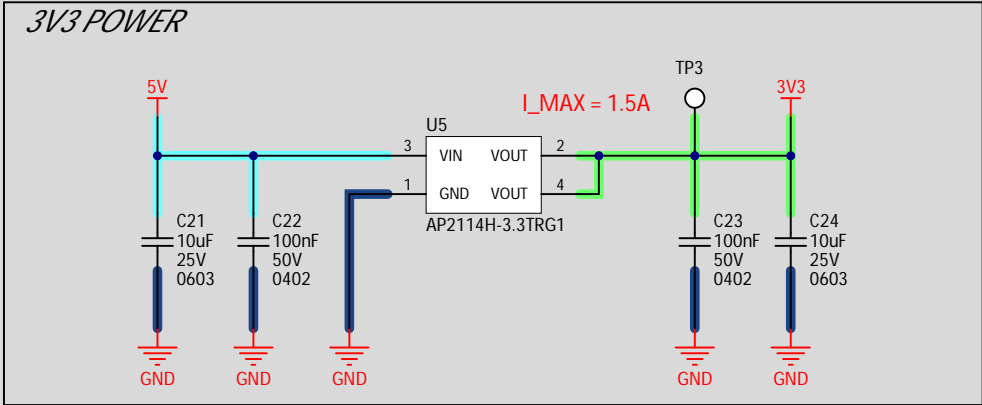
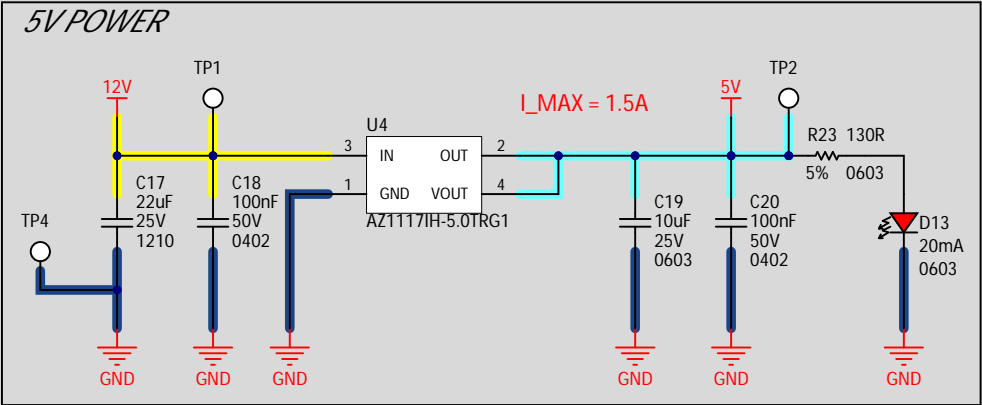
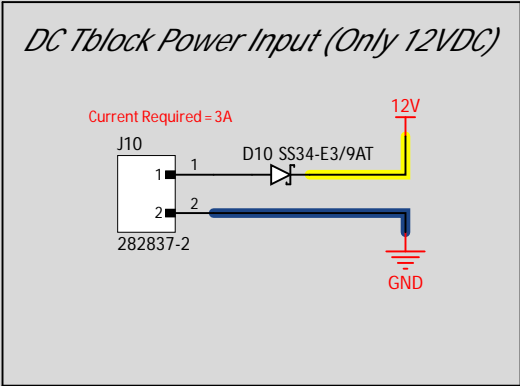
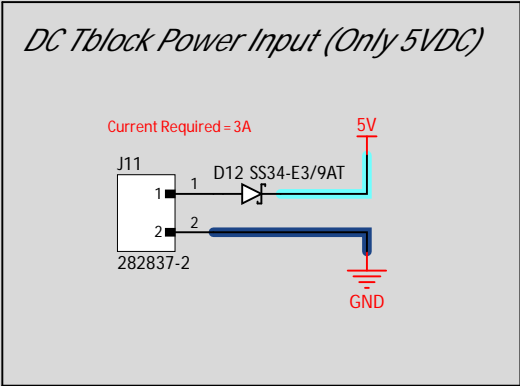
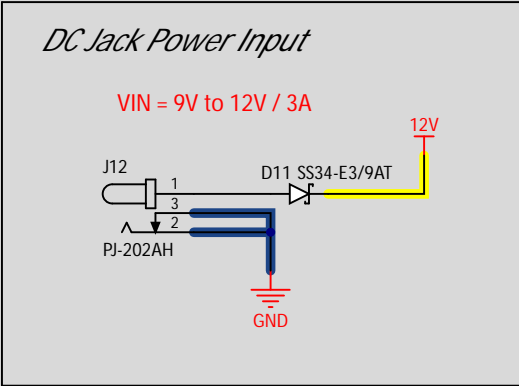
Revision and Version : 1.0 A

Rev History	Description	Date
001	- Starting design	07.18.2024
002		
003		
004		
005		

Mechanicals :



PCB Des : ELIO F.			
Approv By : ELIO F.			
Project Title : IoT_Greenhouse V1.0 A.PrjPcb		Sheet Title : Cover Page	
Date : 8/24/2024		PCB Version : 1.0	Size : A4
Page : 1 5		PCB Revision : A	



PCB Des :			
Elio F			
Approv By :			
Elio F			
Project Title :		Sheet Title :	
IoT_Greenhouse V1.0 A.PrjPcb		Power Input	
Date :	9/4/2024	PCB Version :	1.0
Page :	2 5	PCB Revision :	A
			Size : A4

AUTO DOWNLOAD

AUTO DOWNLOAD SETUP

DTR	RTS	EN	IO9
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

AUTO DOWNLOAD SETUP

DTR	RTS	EN	IO9
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

The schematic diagram illustrates the pin connections for the ESP32-C6-WROOM-1-N4 module, showing four main sections: U2A, U2B, J2, and J3.

U2A (ESP32-C6-WROOM-1-N4): This section shows the module's pins and their connections. Power pins include EN (3V3), GND, and 3V3. Signal pins include GPIO0 through GPIO23, UART_RXD, and UART_TXD. Peripheral components include R13 (10K, 1%, 0603), C4 (1uF, 16V, 0603), C5 (10uF, 25V, 0603), C6 (100nF, 50V, 0402), R14 (10K, 1%, 0603), R7 (4.7K, 1%, 0603), and R24 (4.7K, 1%, 0603). The module is labeled "ESP32-C6-WROOM-1-N4".

U2B (ESP32-C6-WROOM-1-N4): This section shows the module's pins and their connections. Power pins include GND, 3V3, and GND. Signal pins include GPIO0 through GPIO23, UART_RXD, and UART_TXD. Peripheral components include R13 (10K, 1%, 0603), C4 (1uF, 16V, 0603), C5 (10uF, 25V, 0603), C6 (100nF, 50V, 0402), R14 (10K, 1%, 0603), R7 (4.7K, 1%, 0603), and R24 (4.7K, 1%, 0603). The module is labeled "ESP32-C6-WROOM-1-N4".

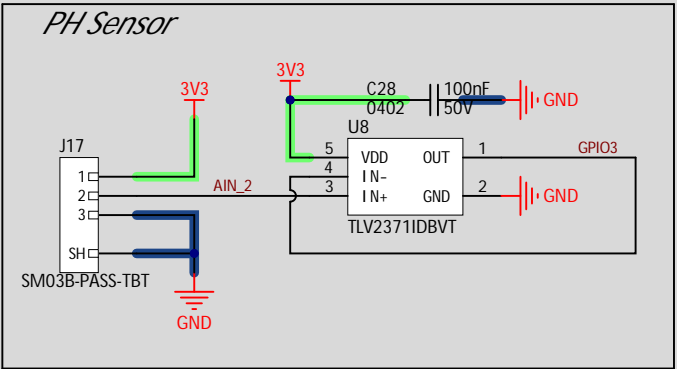
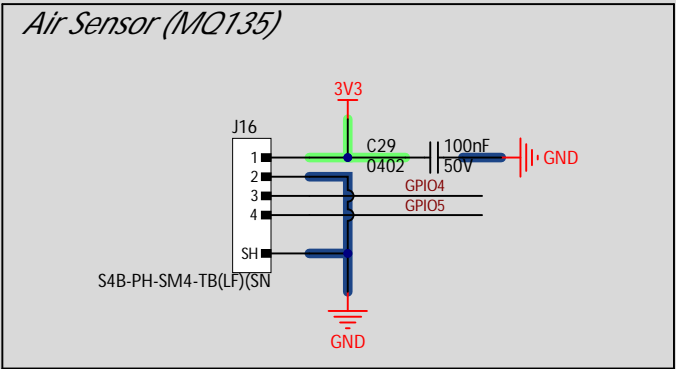
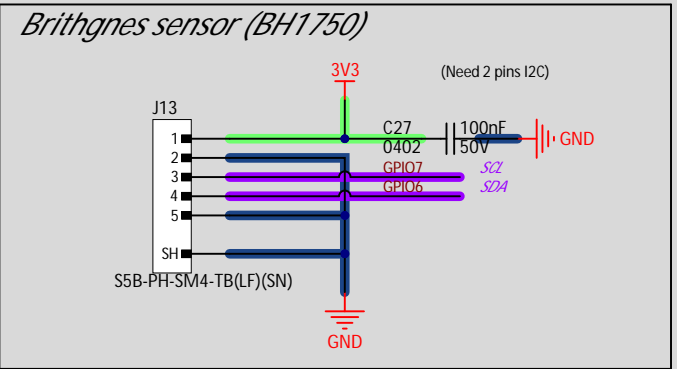
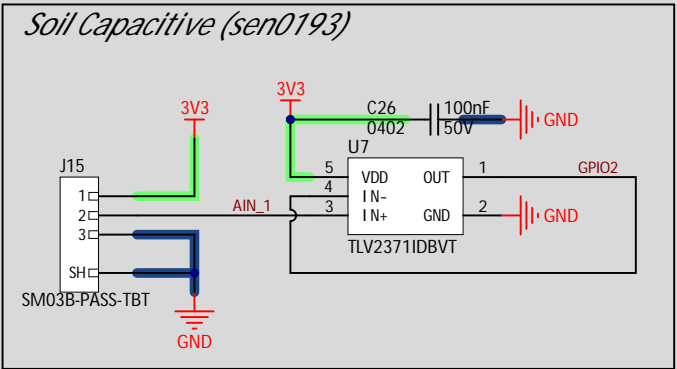
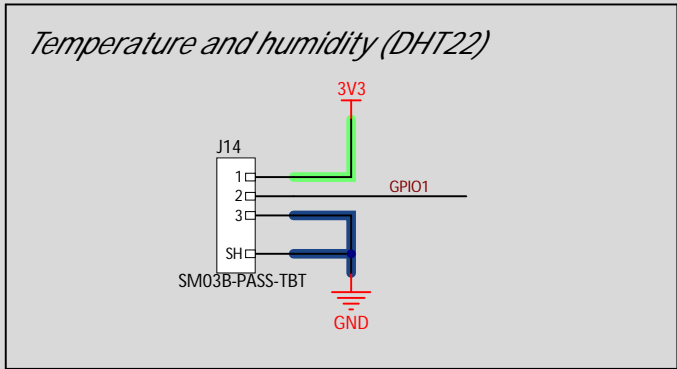
J2 (PEC15SFAN): This section shows the module's pins and their connections. Power pins include 5V and GND. Signal pins include GPIO0 through GPIO23, UART_RXD, and UART_TXD. The module is labeled "PEC15SFAN".

J3 (PEC15SFAN): This section shows the module's pins and their connections. Power pins include 3V3 and GND. Signal pins include GPIO0 through GPIO23, UART_RXD, and UART_TXD. The module is labeled "PEC15SFAN".

The diagram also includes a note "Access to pinout" and a list of components: R13, C4, C5, C6, R14, R7, R24, and J2, J3.

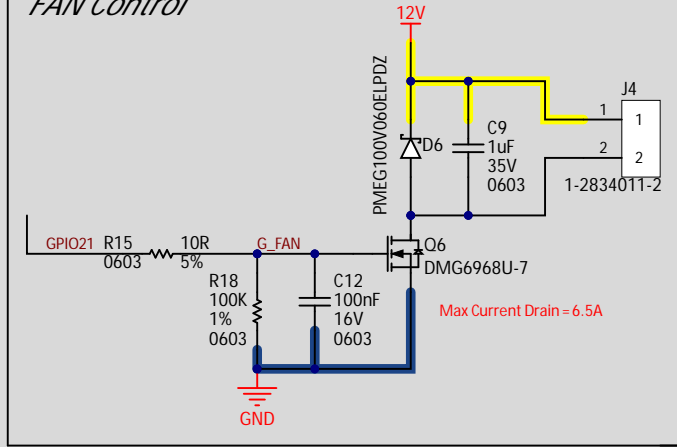
BOOT AND RST

PCB Des : Elio F		
Approv By : Elio F		
Project Title : IoT_Greenhouse V1.0 A.PrjPcb		Sheet Title : ESP32-C6
Date : 9/9/2024	PCB Version : 1.0	Size : A3
Page : 3 5	PCB Revision : A	

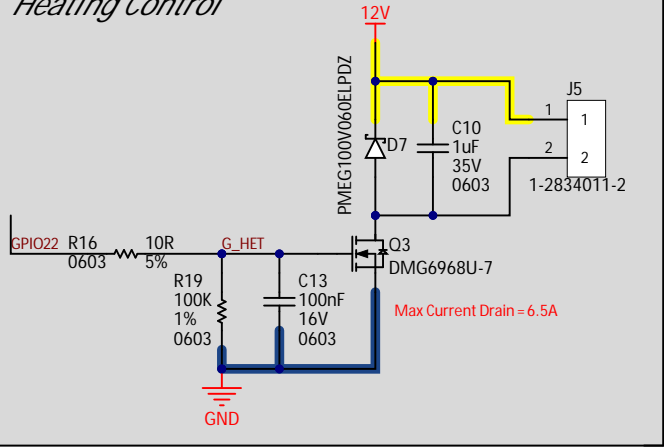


PCB Des :			
Elio F			
Approv By :			
Elio F			
Project Title :		Sheet Title :	
IoT_Greenhouse V1.0 A.PrjPcb		Inputs	
Date :	9/9/2024	PCB Version :	1.0
Page :	4 5	PCB Revision :	A
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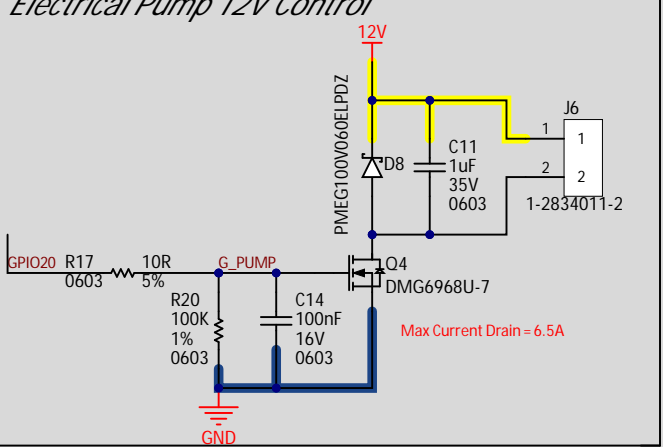
FAN Control



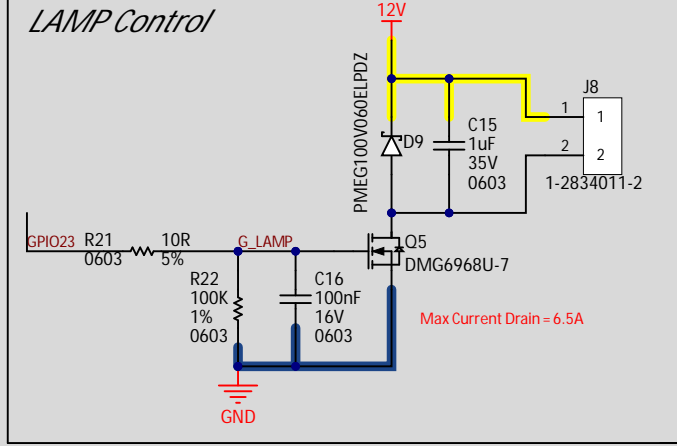
Heating Control



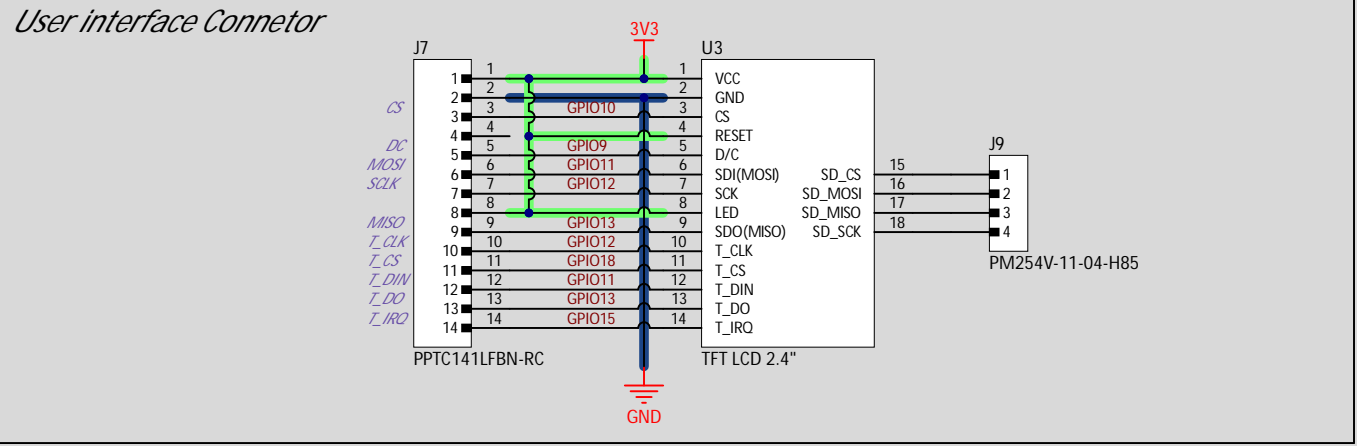
Electrical Pump 12V Control



LAMP Control



User interface Connetor



PCB Des :			
Elio F			
Approv By :			
Elio F			
Project Title :	IoT_Greenhouse V1.0 A.PrjPcb		Sheet Title :
Date :	9/9/2024	PCB Version :	1.0
Page :	5	PCB Revision :	A
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