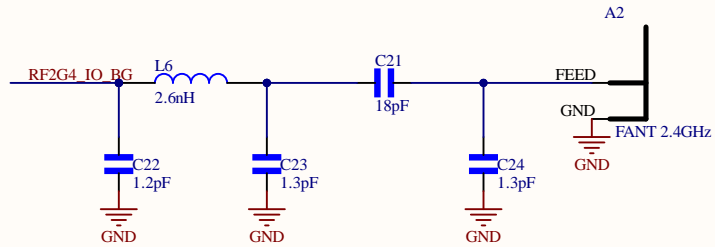
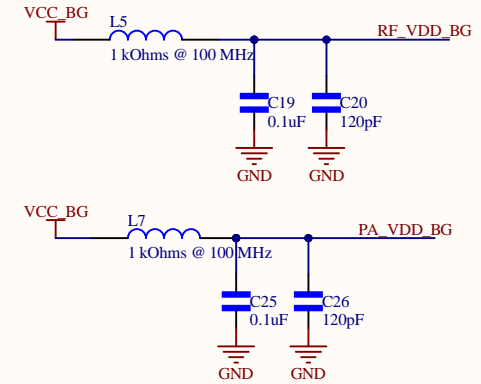


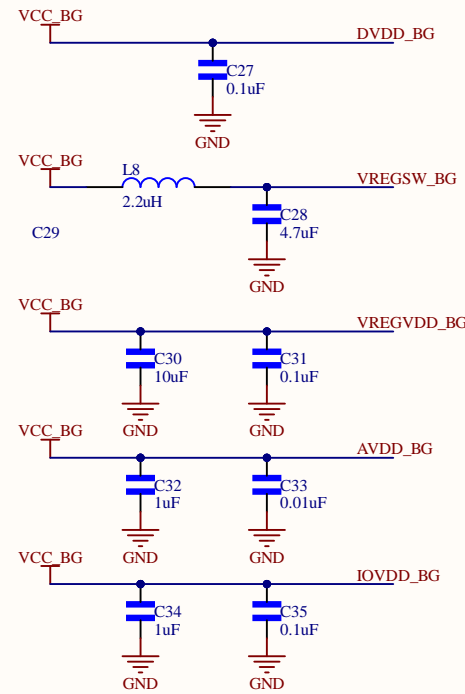
2.4GHz Antenna



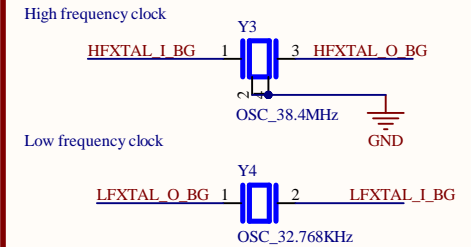
RF & decoupling



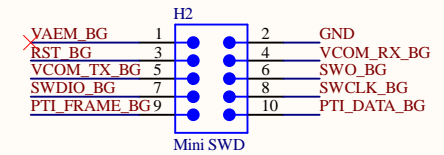
Power & decoupling



Clocks



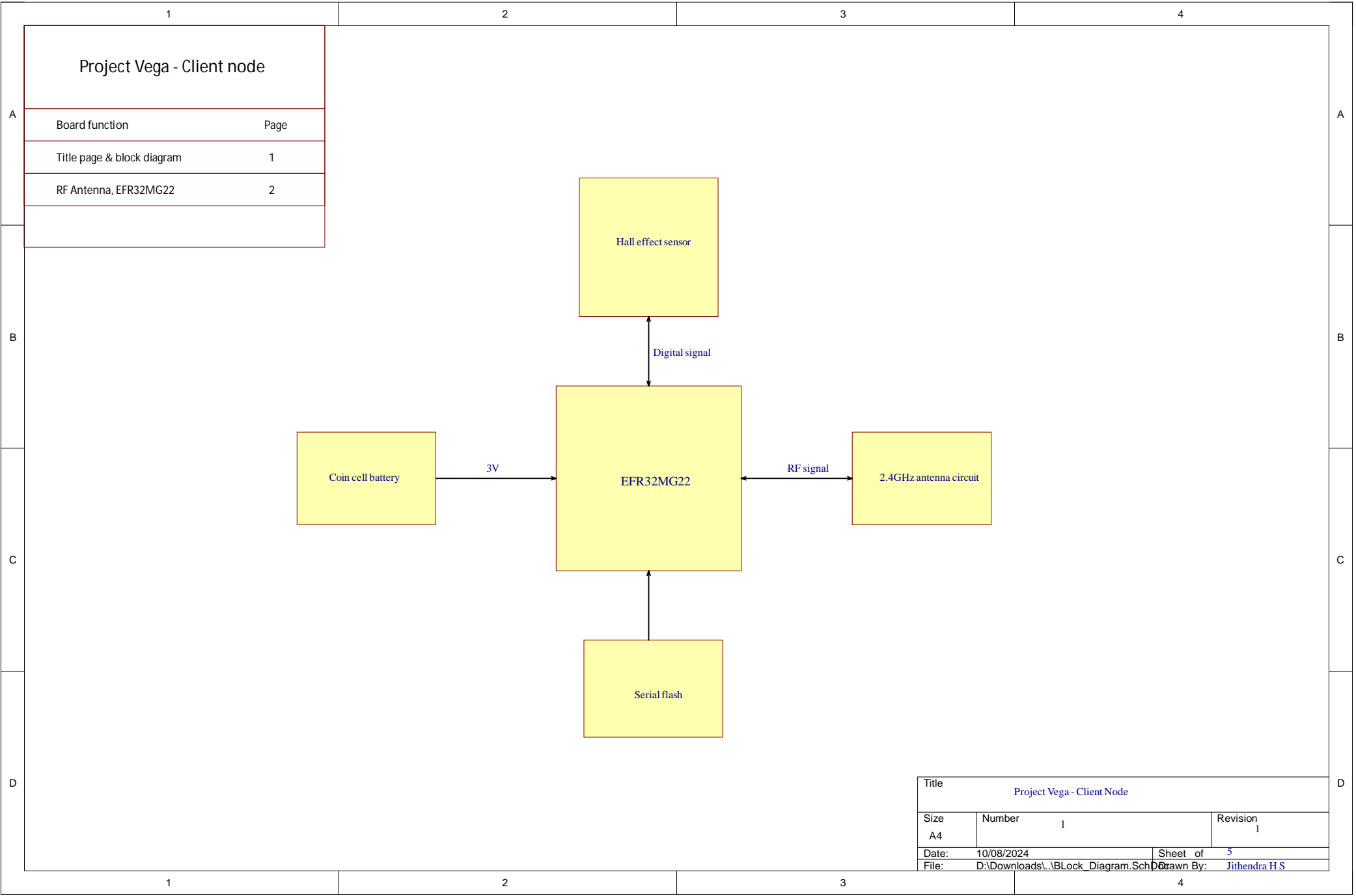
Programming



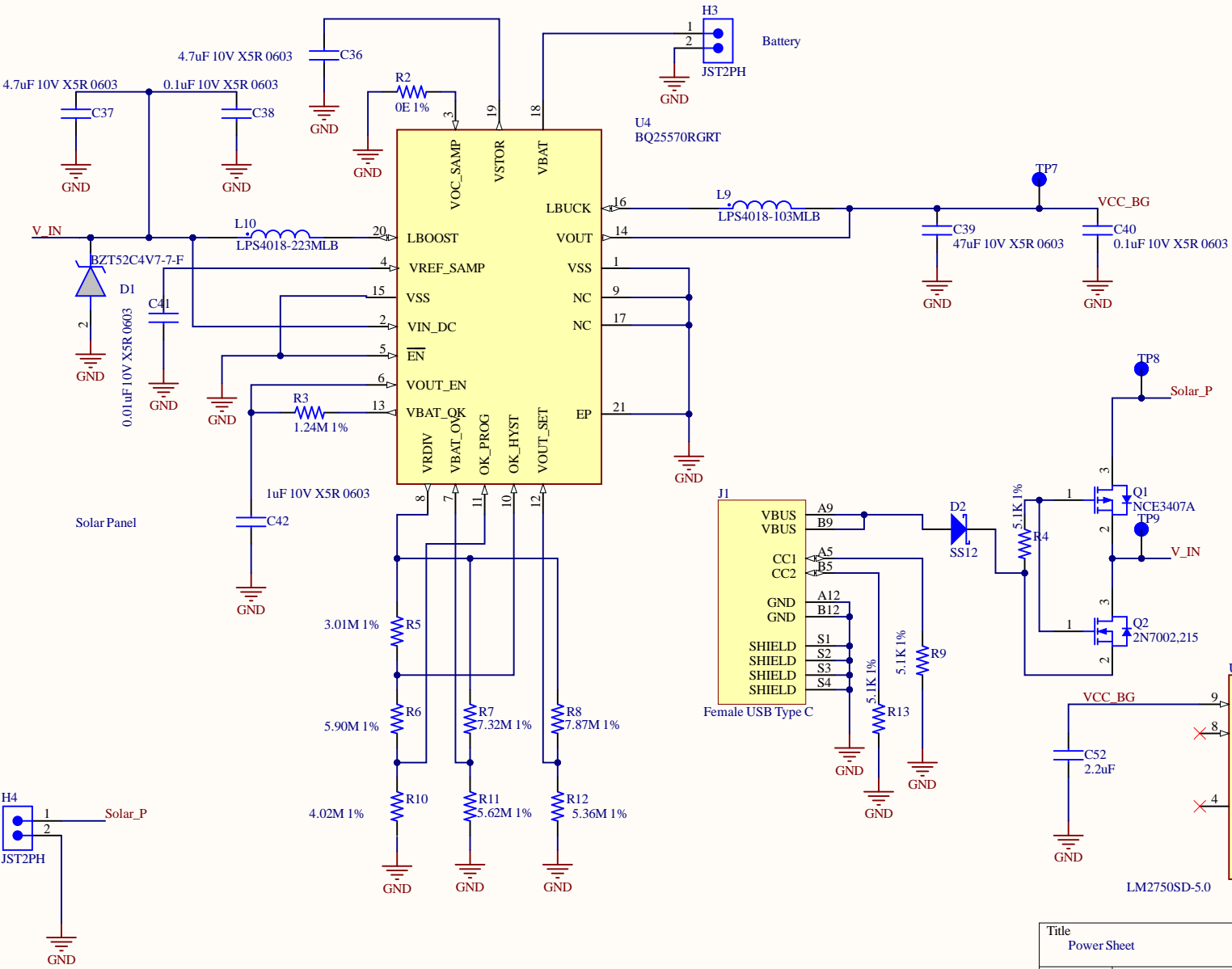
EFR32BG21

EFR32BG21A010F1024IM32-BR

Title		
Principal Node		
Size	Number	Revision
A4	1	*
Date:	10/08/2024	Sheet of 5
File:	D:\Downloads\...\Principal.SchDoc	Drawn By: *

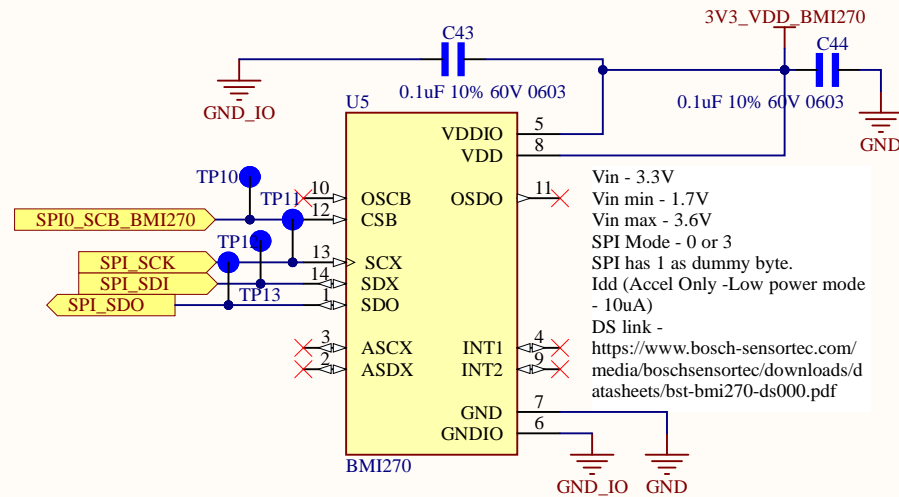


TitleProject Vega - Client Node		
SizeA4	Number1	Revision1
Date:10/08/2024	Sheet of5	
File:D:\Downloads\...\Block_Diagram.SchDoc	Drawn By:Jithendra H S	



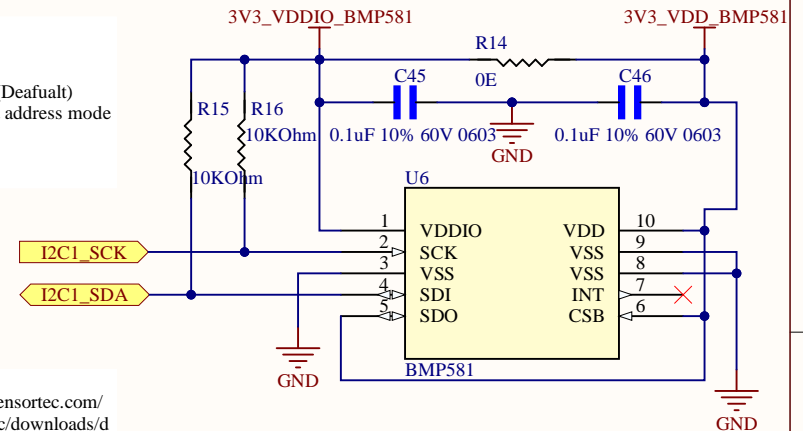
Title Power Sheet		
Size A4	Number	Revision
Date: 10/08/2024	Sheet of	
File: D:\Downloads\...\Power_Sheet.SchDoc	Drawn By:	

A



BMI270 - IMU

Vin - 3.3V
Vin min - 1.7V
Vin max - 3.6V
I2C Address - 0x47 (Default)
I2C Spec - only 7 bit address mode is supported



DS -
<https://www.bosch-sensortec.com/media/boschsensortec/downloads/datasheets/bst-bmp581-ds004.pdf>

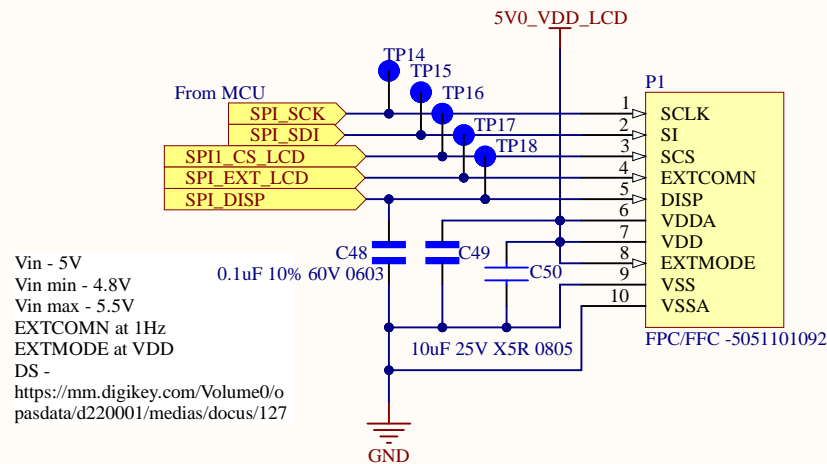
BMP581 - Pressure Sensor

B

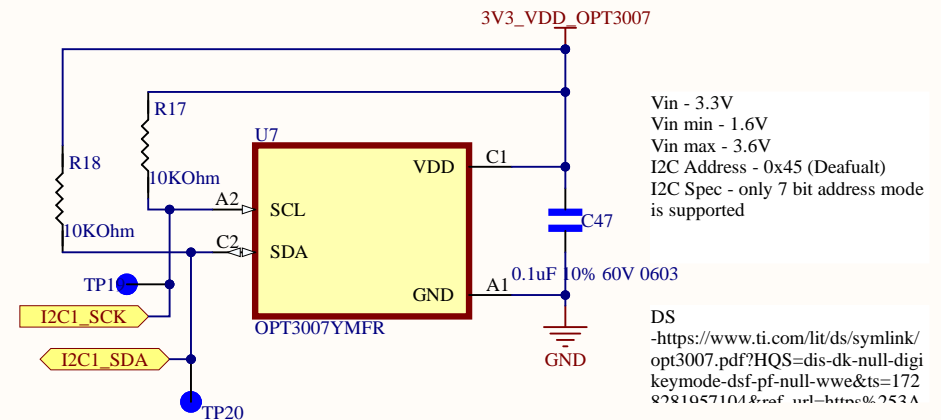
B

C

C



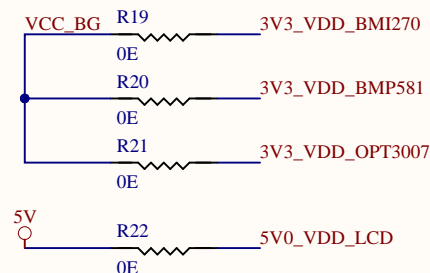
LS027B7DH01A - LCD Display



OPT3007 - Lux Sensor

D

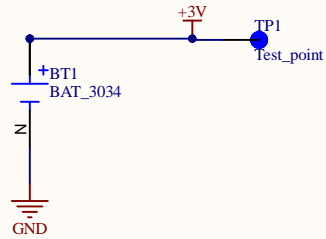
D



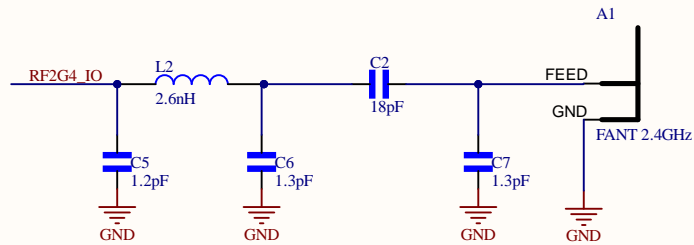
For bring up and debug purposes

Title		
Principal Node_Sensor Schematic		
Size	Number	Revision
A	3	1
Date:	10/08/2024	Sheet of PCB Project sch layout.PriPcb
File: D:\Github\Project_Vega_Sensors_Schematic\BSP\Prudhvi Kondapalli		

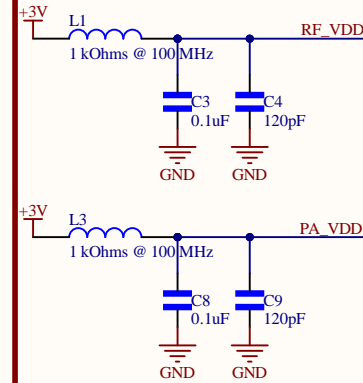
Power Conditioning



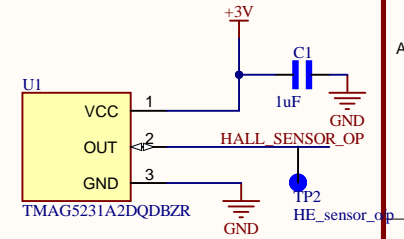
2.4GHz Antenna



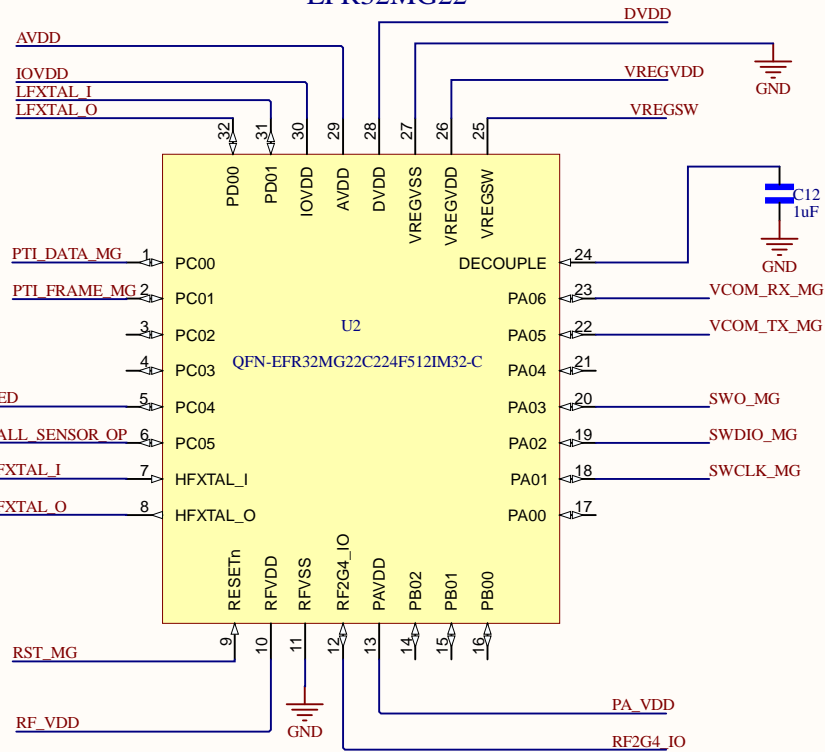
RF & decoupling



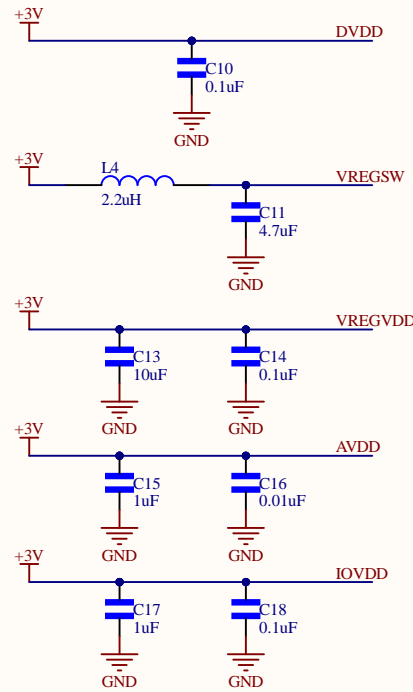
Hall effect sensor ckt



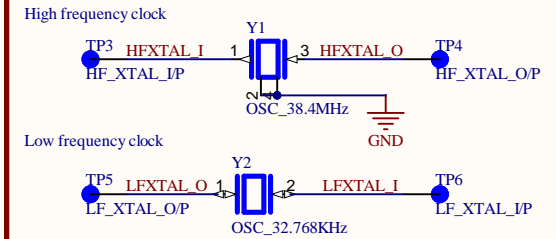
EFR32MG22



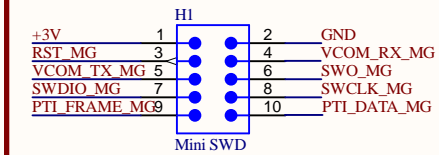
Power & decoupling



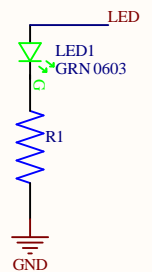
Clocks



Programming



LED ckt



Title		
Project Vega - Client Node		
Size	Number	Revision
A4	4	1
Date:	10/08/2024	Sheet of 5
File:	D:\Downloads\.\Client_Node.SchDoc	Drawn By: Jithendra H S