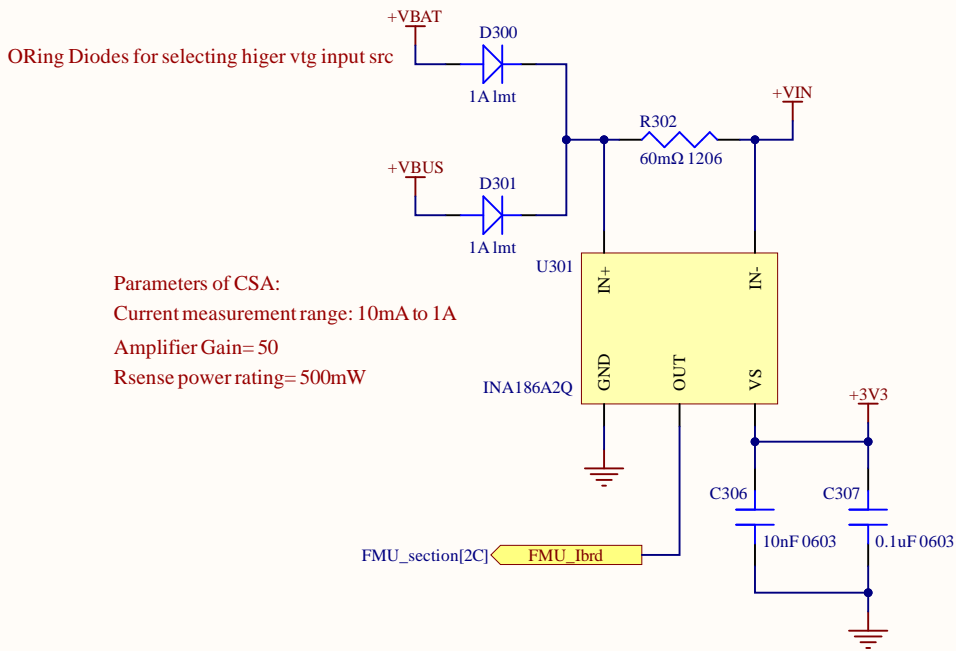
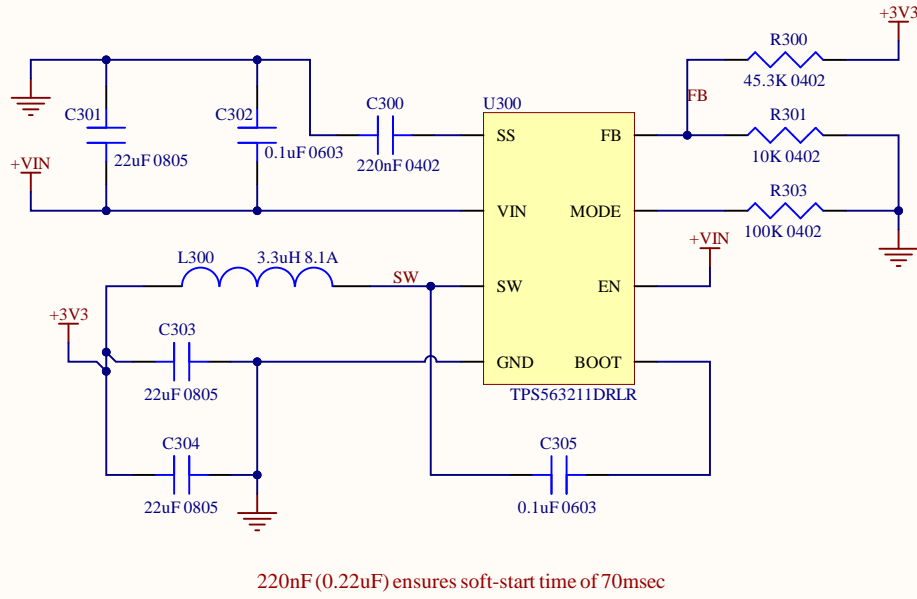


Title: IO MCU		
Size A2	Document Number 2	Revision v2.0
Date: 04-05-2024		Sheet: 2 of 4
Organisation: IITK		Drawn by: Vineet M.

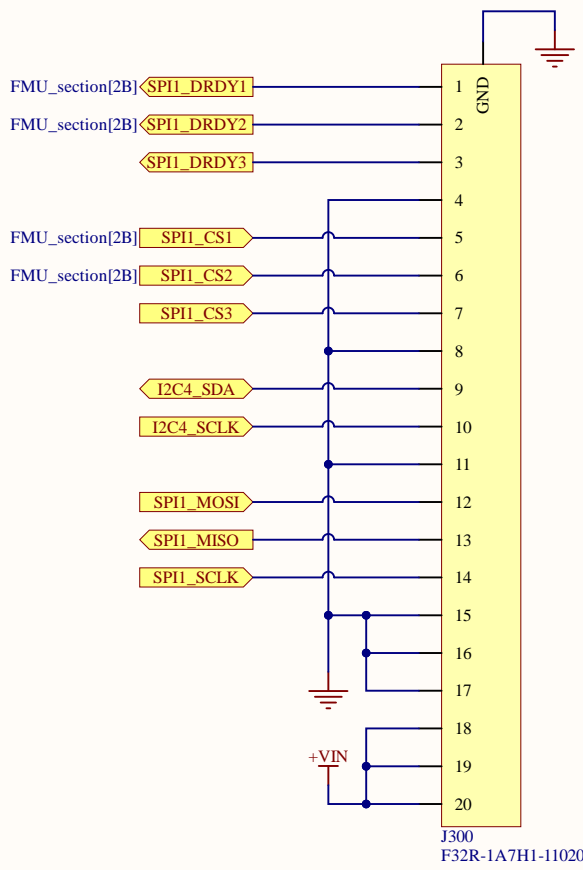
Input Power and Monitor Section



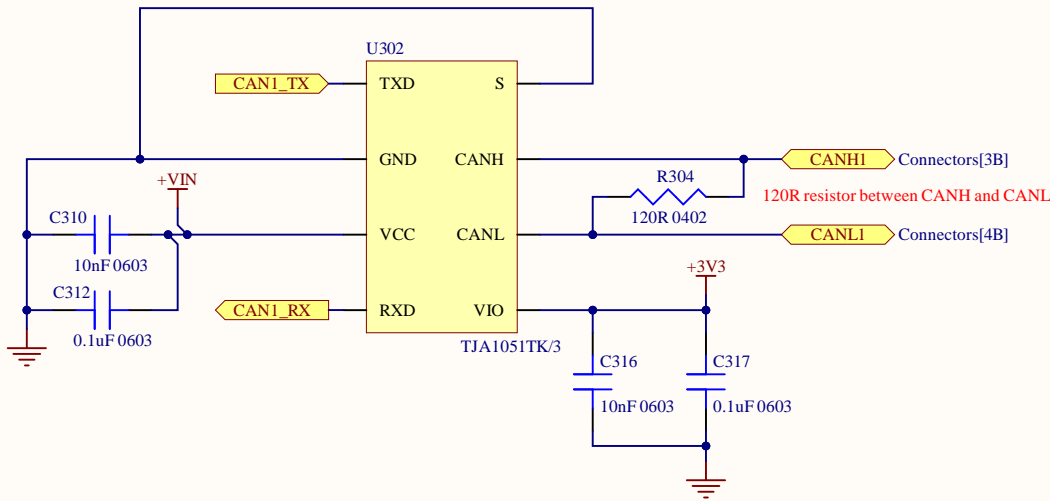
FMU Power Section



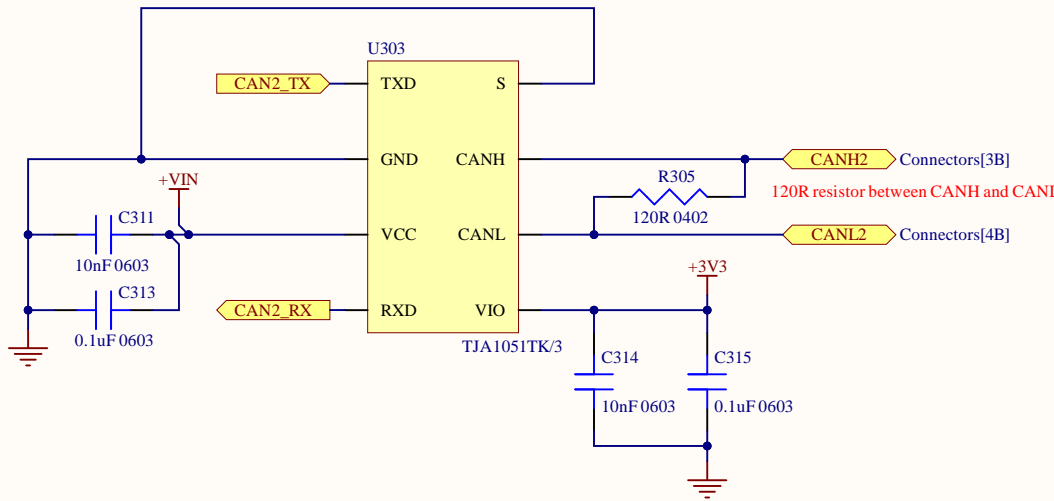
220nF (0.22uF) ensures soft-start time of 70msec



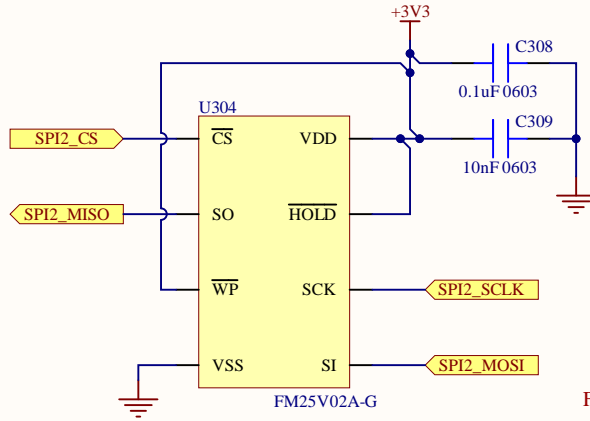
CAN1



CAN2

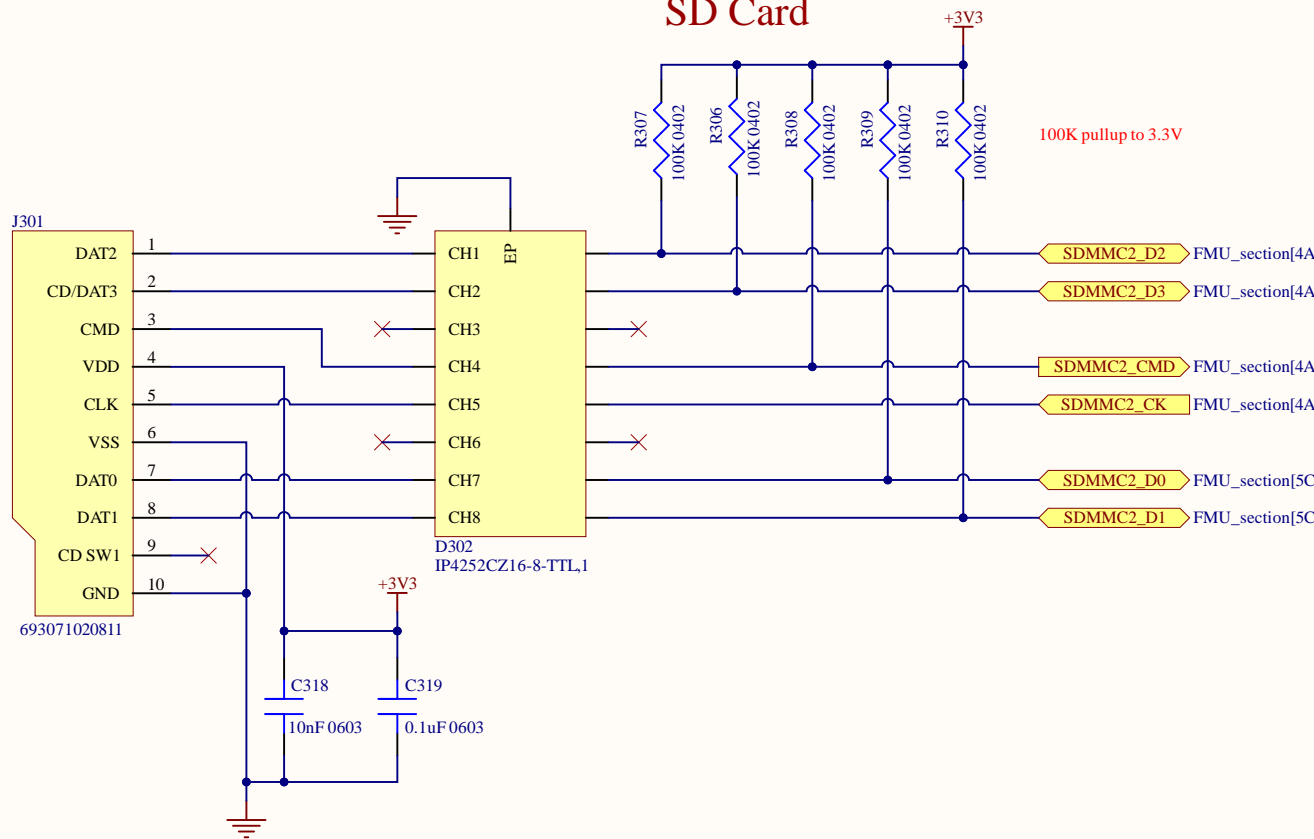


FRAM



FRAM protocol: SPI2
FM25V02A-G: CS1

SD Card

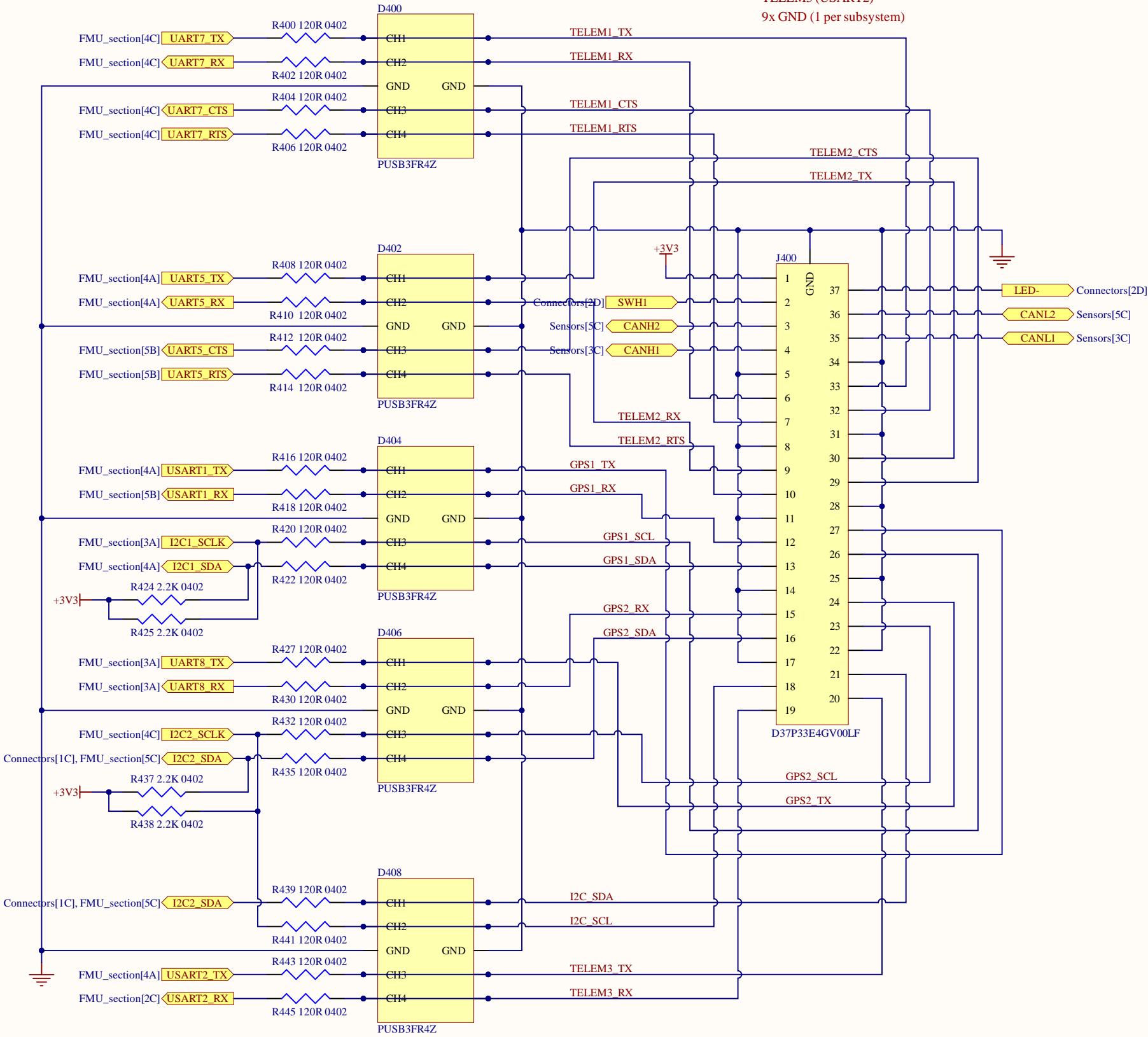


Title: Sensors & Power

Size	Document Number	Revision
A2	3	v2.0
Date: 04-05-2024	Sheet: 3 of 4	
Organisation: IITK	Drawn by: Vineet M.	

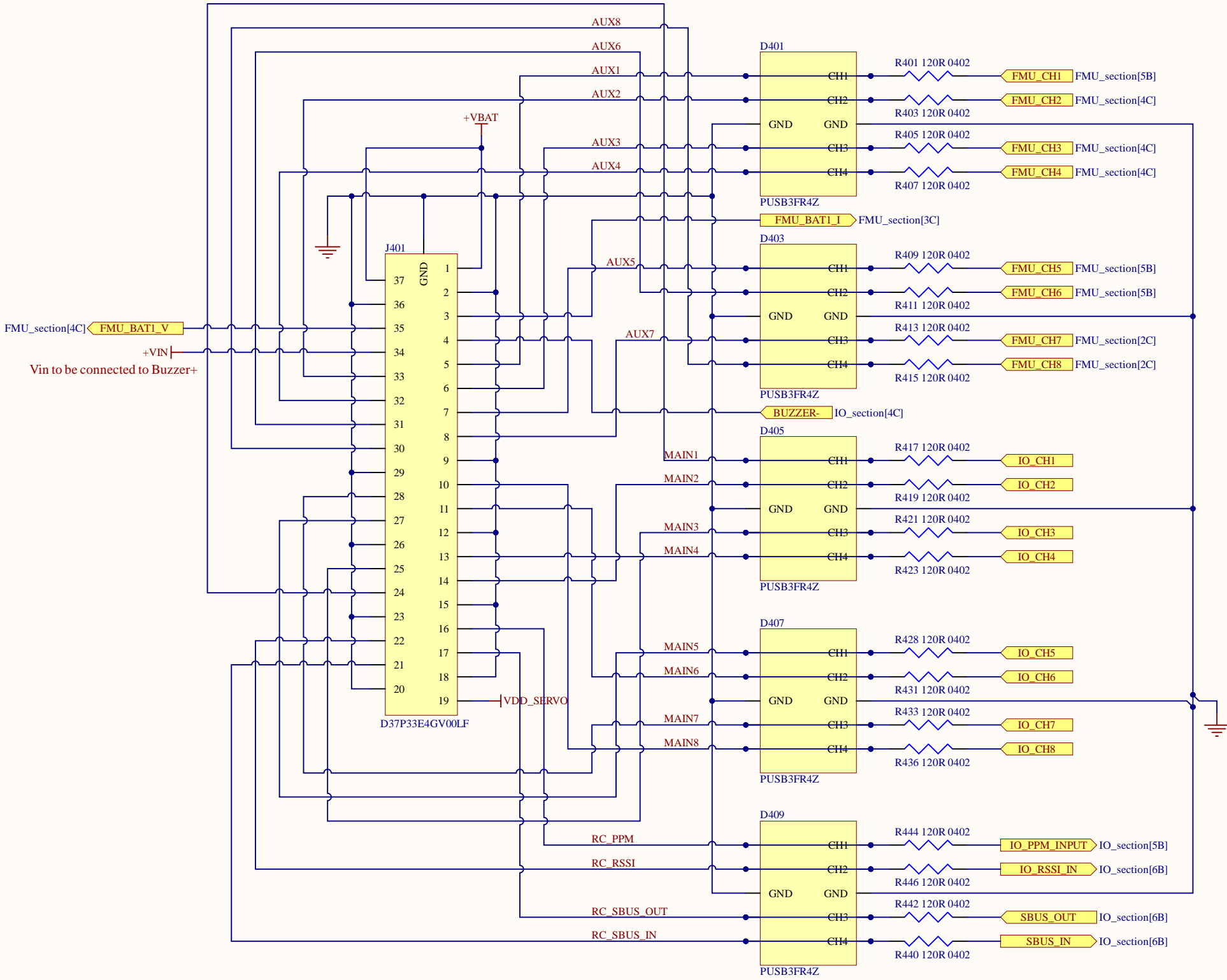
Group A

Connections included in Group A:
TELEM1 (UART7)
TELEM2 (UART5)
GPS1 (USART1 & I2C1)
GPS2 (UART8 & I2C2)
BUZZER (Safety Switch and Buzzer)
CAN1 and CAN2
I2C
TELEM3 (USART2)
9x GND (1 per subsystem)

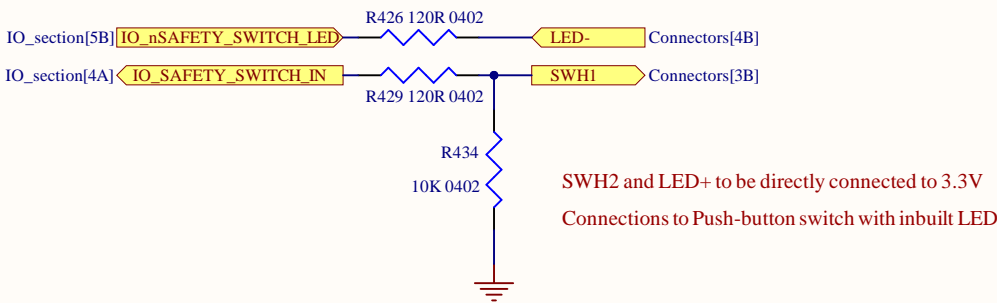


Group B

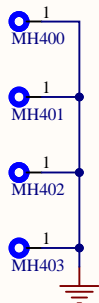
Connections included in Group B:
FMU PWM ports
IO PWM ports
RC ports (PPM_IN; SBUS_IN; SBUS_OUT; RSSI_IN)
POWER1
POWER2 excluded and been modified for internal power consumption
8x GND (1 per subsystem)



Safety Switch Section



Safety Switch Section



Title: Connectors

Size	Document Number	Revision
A2	4	v2.0
Date: 04-05-2024	Sheet: 4 of 4	
Organisation: IITK	Drawn by: Vineet M.	