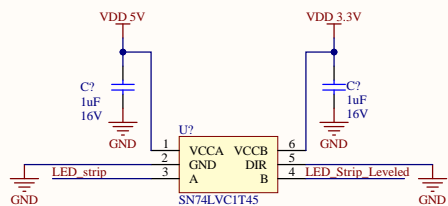
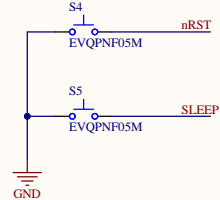


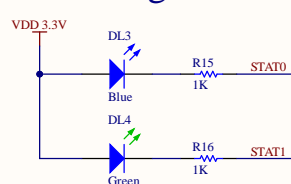
LED Level Shifter



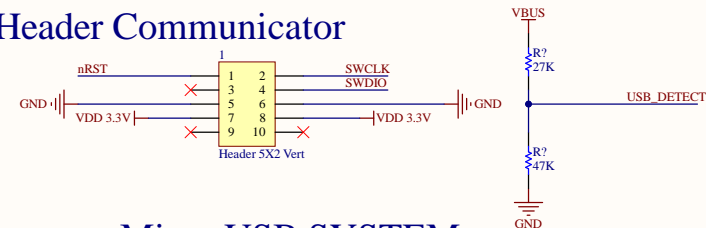
Switches



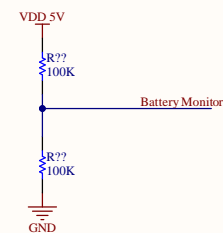
Status Lights



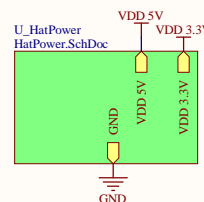
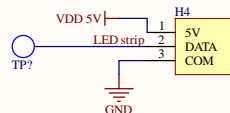
Header Communicator



Battery Monitor

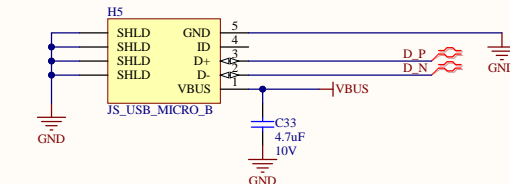


LED strip

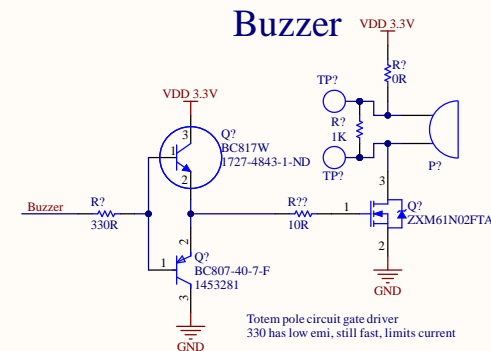


Use two vias to make GND test holes that can have a staple shape wire soldered between

Micro USB SYSTEM

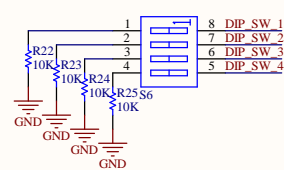


Buzzer

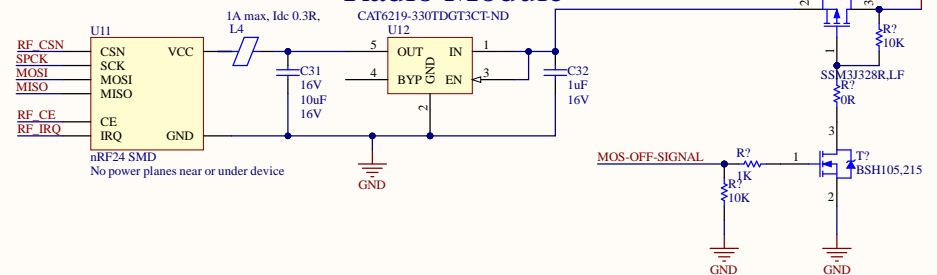


Totem pole circuit gate driver
330 has low emi, still fast, limits current

Device ID Select



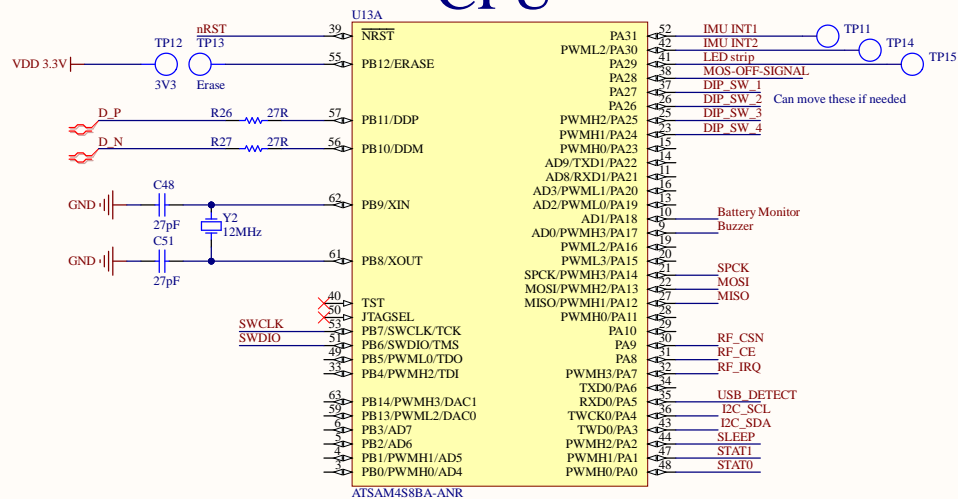
Radio Module



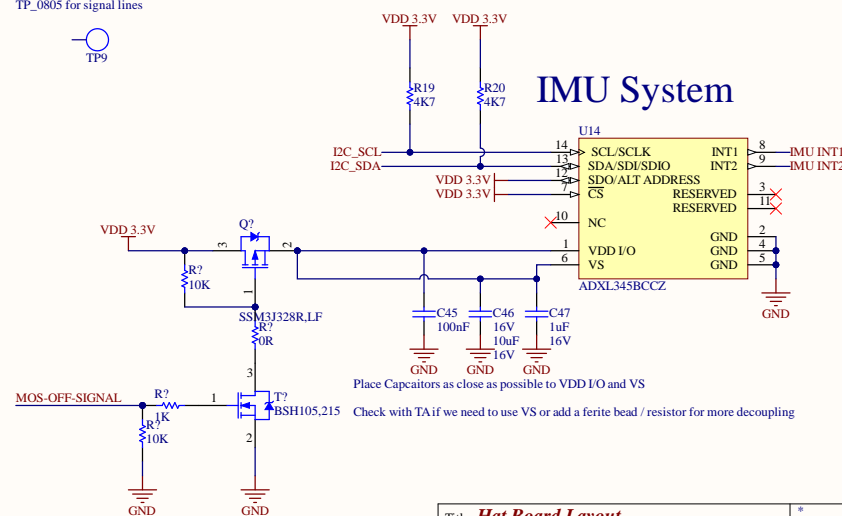
TP_1206 for power rails (3.3V, GND)

TP_0805 for signal lines

CPU



IMU System



Place Capacitors as close as possible to VDD I/O and VS
Check with TA if we need to use VS or add a ferrite bead / resistor for more decoupling

Title	Hat Board Layout	*	Cannot open file J:\Altium\Templ
Drawn by:	mdo94, gre58, bto45, mmc305	Revision:	*
Date:	1/03/2026	Time:	11:56:57 am
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A

B

C

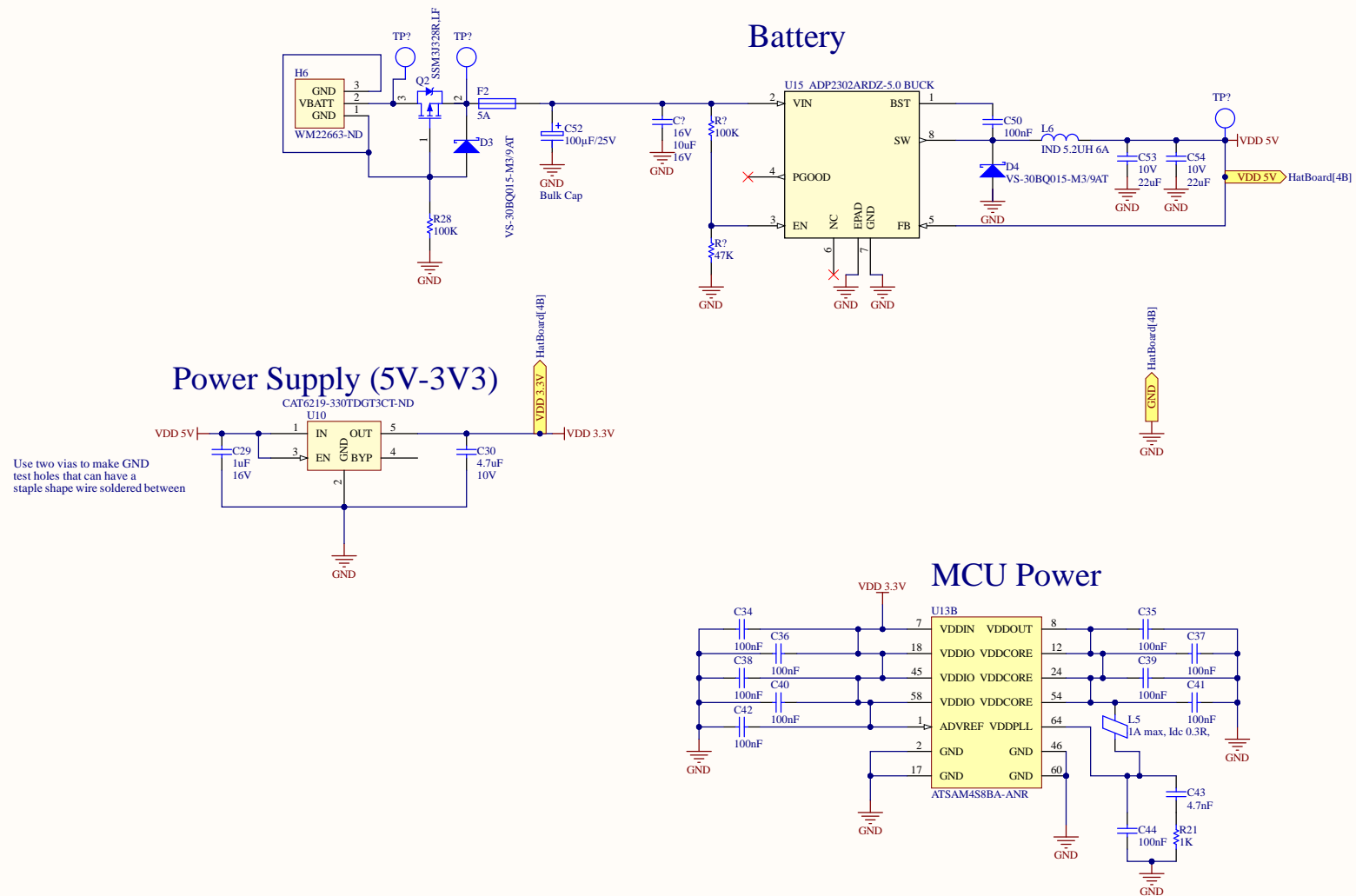
D

A

B

C

D



Title		
Hat Power		
Size	Number	Revision
A3		
Date:	3/01/2026	Sheet of
File:	C:\Users\j\HatPower.SchDoc	Drawn By: mdo94, gre58, bto45, mmc305