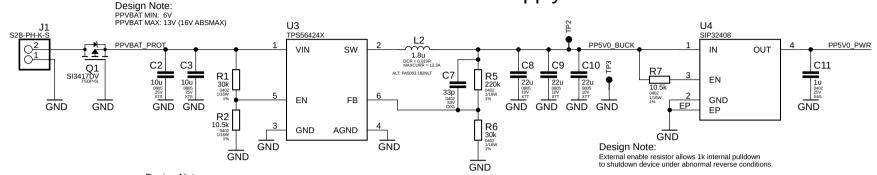
#### ECN-GFC01:

- Added PFET based reverse polarity protection on battery input.
  Added buck converter for 5V power rail from external battery.
  Added reverse protection for buck when externally powered from BEC.
  Removed boost converter.
  Changed USB ESD diodes to single array.
  Changed power LED color to green.
  Removed ESP32 DNI capacitor footprint.
  Added schematic annotations and design notes.
  Added test-points on power rails.

	REVISION TABLE					
REV.	SUMMARY	REF. DOC.	DATE	SIGNED		
1.0	Initial Release	NA	3/2/2023	F.Lupas		
1.1	Pwr-Mngmt Changes	ECN-GFC01	~	~		

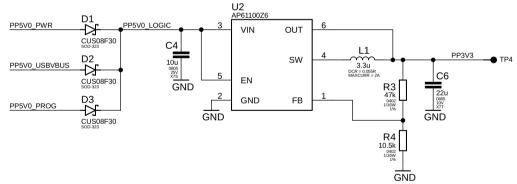
First Page								
TITLE:	GliderFlightController							
Document Number: NA			REV: <b>1.1</b>					
Date: 5/	23/2023 9:03 PM	Sheet:	1/5					

# 5V Servo Power Supply

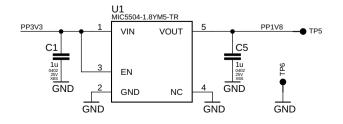


#### Design Note: Divider ensures 1.33V<EN<5.5V under all input voltages: VIN = 6V → EN = 1.55V VIN = 13V → EN = 3.37V

# 3.3V Logic Power Supply



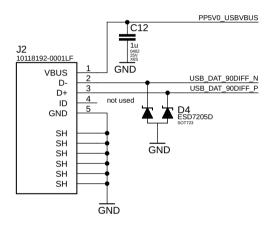
# 1.8V IMU Power Supply



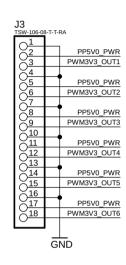
Power Management								
TITLE:	GliderFlightController							
Documer <b>NA</b>	nt Number:	REV: <b>1.1</b>						

Date: 5/23/2023 9:03 PM Sheet: 2/5

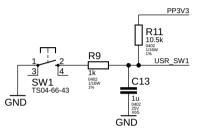
# USB Programming Conn.

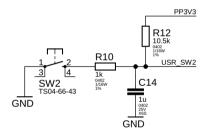


### Servo Header

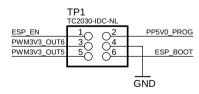


### **User Switches**

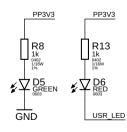




# **Debug Test Points**



### **User LEDs**



## **User Interface**

TITLE: GliderFlightController

Document Number:

NA

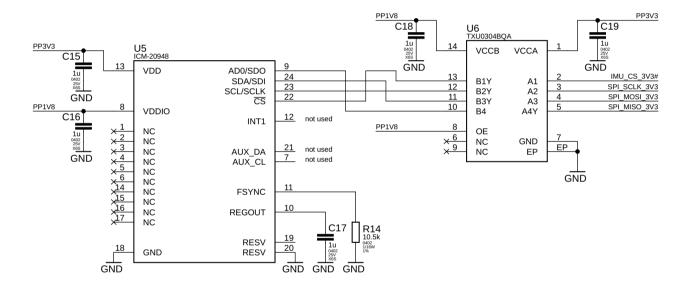
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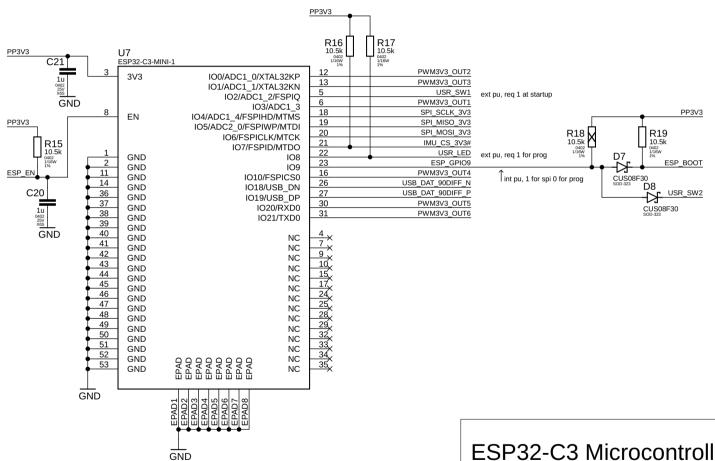
Sheet: 3/5

## IMU w/ level shifter



IMU	J				
TITLE:	GliderFlightController				
Document Number: NA				REV: <b>1.1</b>	
Date:	5/23/2023 9:03 PM		Sheet:	4	/5

#### ESP32-C3 Microcontroller



### ESP32-C3 Microcontroller Block

TITLE: GliderFlightController

**Document Number:** 

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REV:

1.1