

# DivergenceMeter PWR

A work from lamadaemon | Opensource under license Anti-996

For more details about Anti-996 and 996.icu please visit: <https://996.icu>

## Change Log

2023/05/08 Rev1.0: Initial version.

2023/07/14 Rev2.0: Re-route traces. Add fan control

2023/08/05 Rev2.1: Make HV Nets more safty. Fix HV\_EN not pulling down.

Add backup control option

2023/09/10 Rev2.2: Fix minor bugs

## TOC

P1: TOC

P2: Connectors

P3: Fan and Connectors

P4: PD/QC Management

P5: Internal and External Power

P6: Tube power supply

P7: Battery management

P8: Management MCU

P9: Host board controller

## Default Unit

Resistor Ohms

Capacitor Faras

Inductor Henry

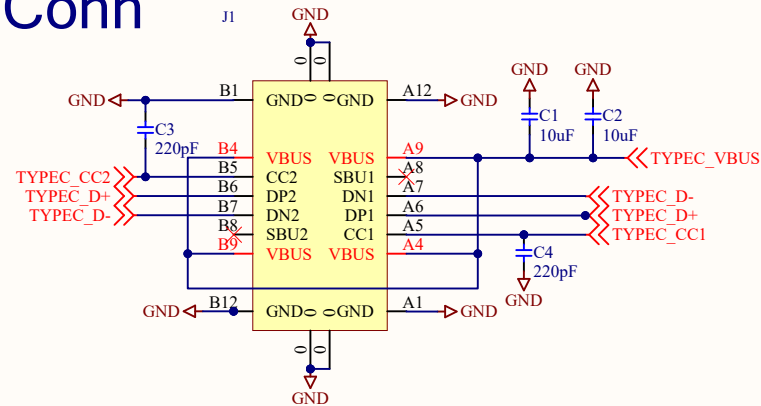
Design: 5th Gen

Rev: 2.2

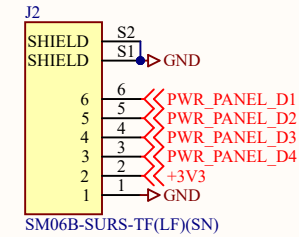
Title		
Size A	Number	Revision
Date:	9/10/2023	Sheet of
File:	E:\Projects\...\TOC.SchDoc	Drawn By:

*Should add TVS diode to connectors*

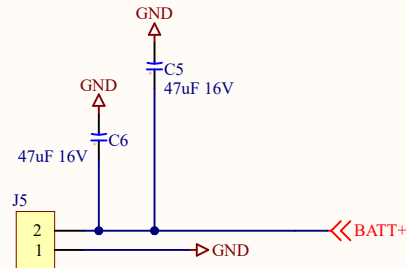
## TypeC Conn



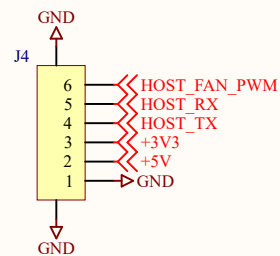
## Power Button



## Battery Conn

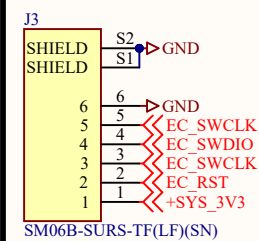


## CTR Board Connector



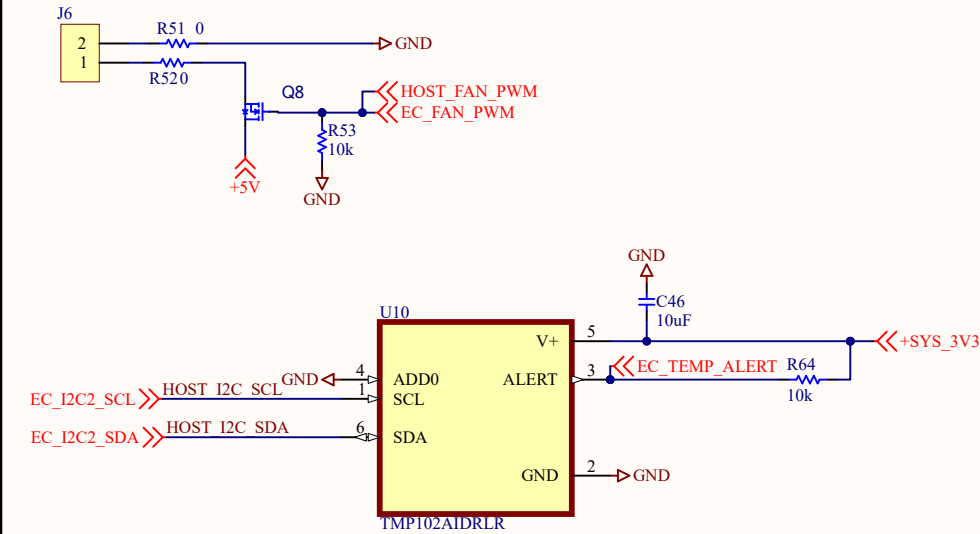
## EC Download

LamaFlash V1 for General STM32 MCU

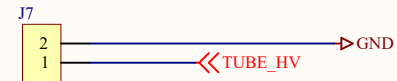


Title		
Size	Number	Revision
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Date:	9/10/2023	Sheet of
File:	E:\Projects\...\Connector.SchDoc	Drawn By:

# Fan



# HV Conn

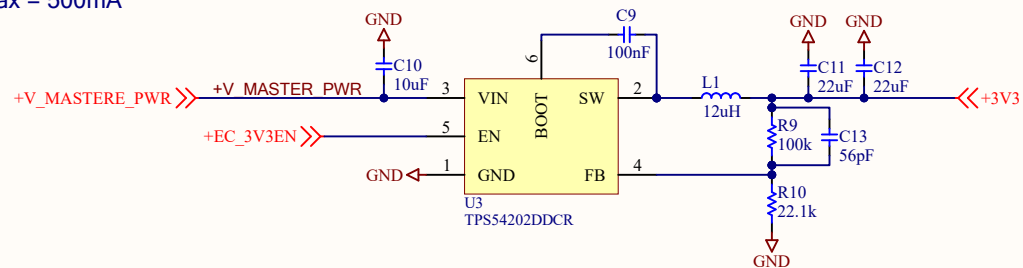


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Size A4	Number	Revision
Date:	9/10/2023	Sheet of
File:	E:\Projects\...\FanAndConnectors2.SchDoc Drawn By:	



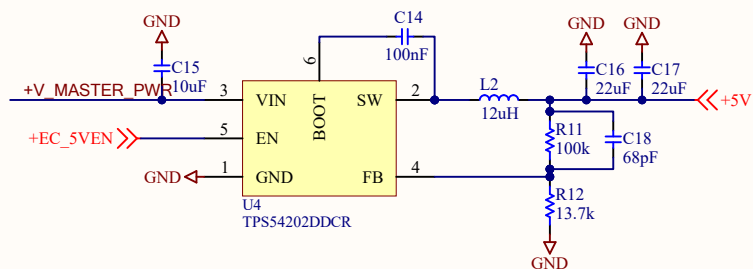
## +3V3 Extern

Vout = 3.3V  
I<sub>max</sub> = 500mA



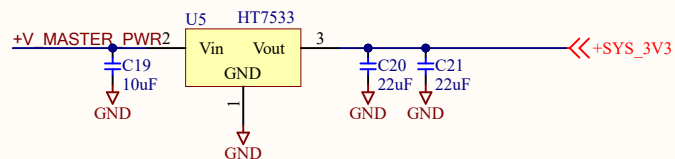
## +5V Extern

Vout = 5V  
I<sub>max</sub> = 500mA



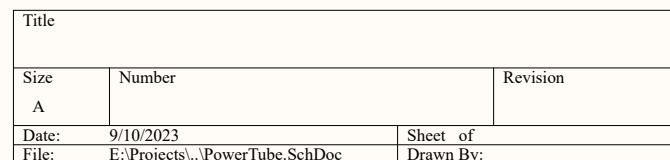
## +3V3 Intern

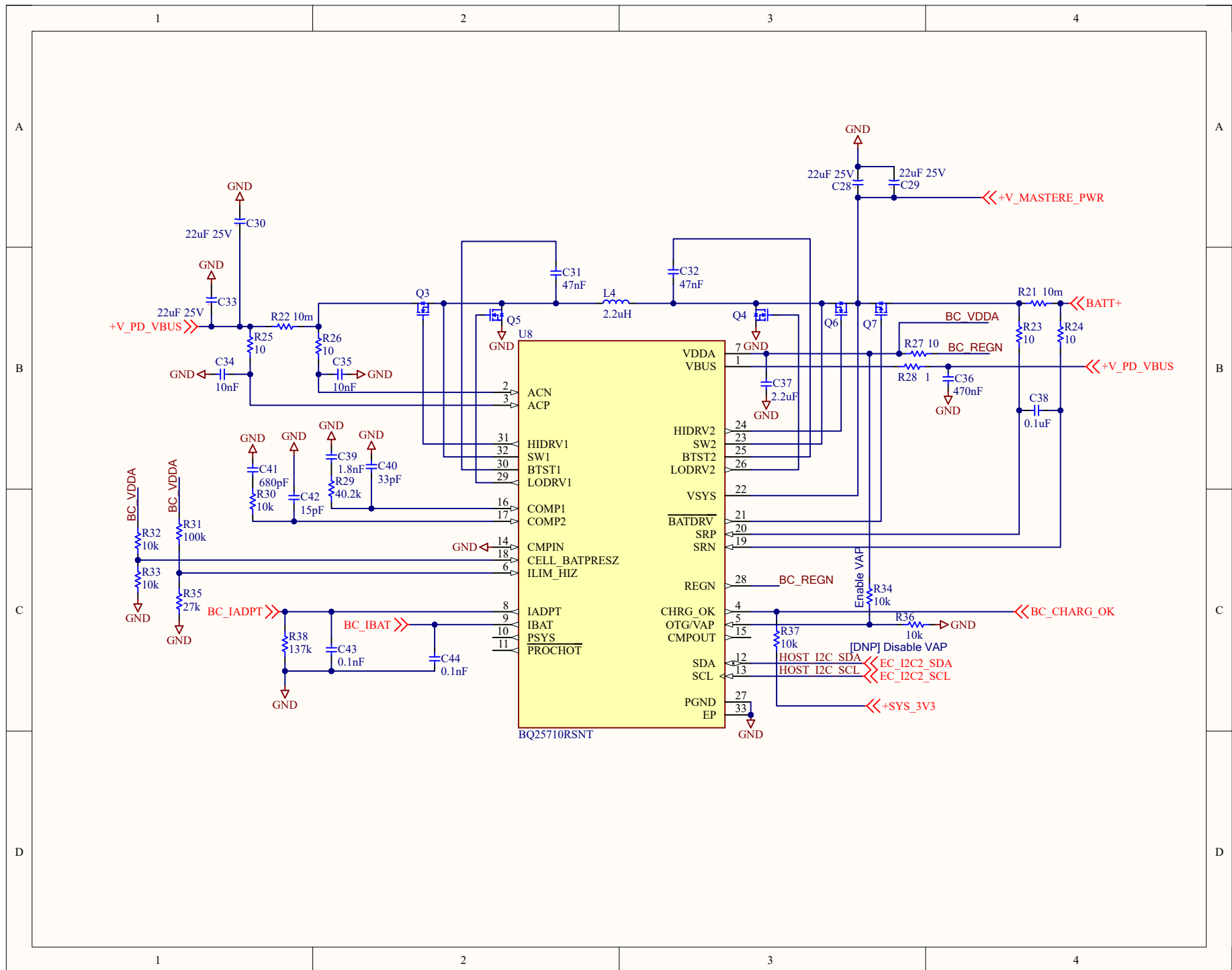
I<sub>max</sub> = 100mA

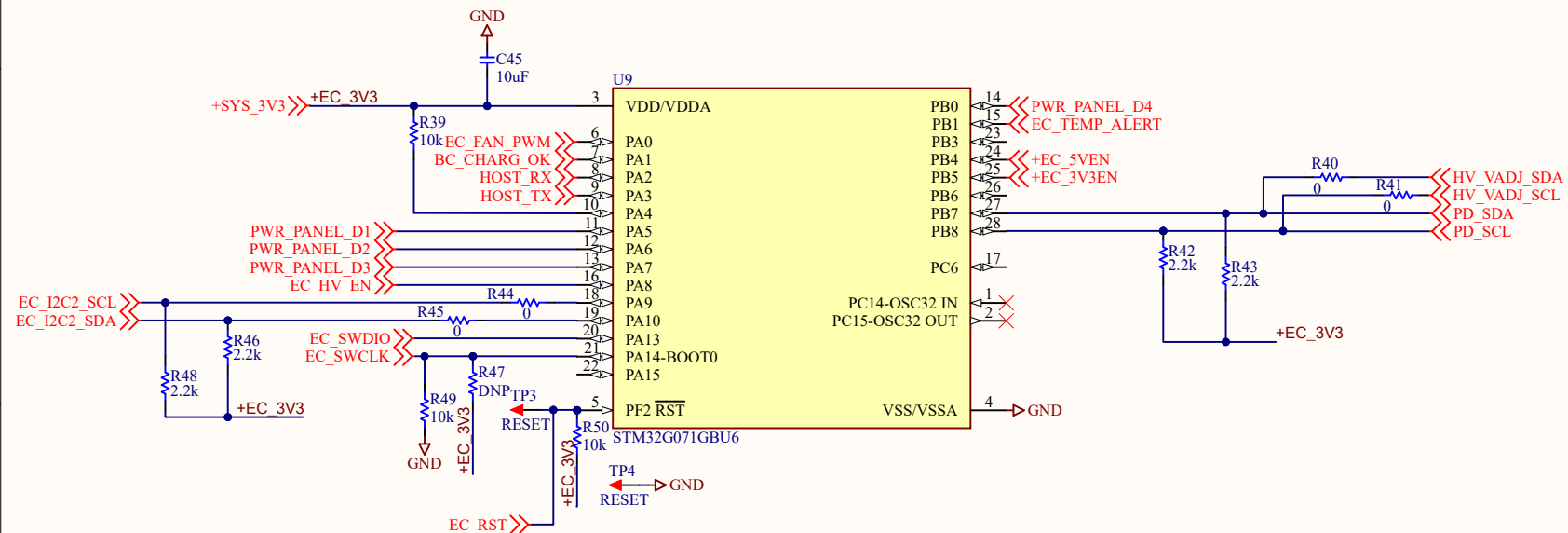


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File:	E:\Projects\...\Power.SchDoc	Drawn By:

Vout = ADJ/170V  
Pmax = 5W





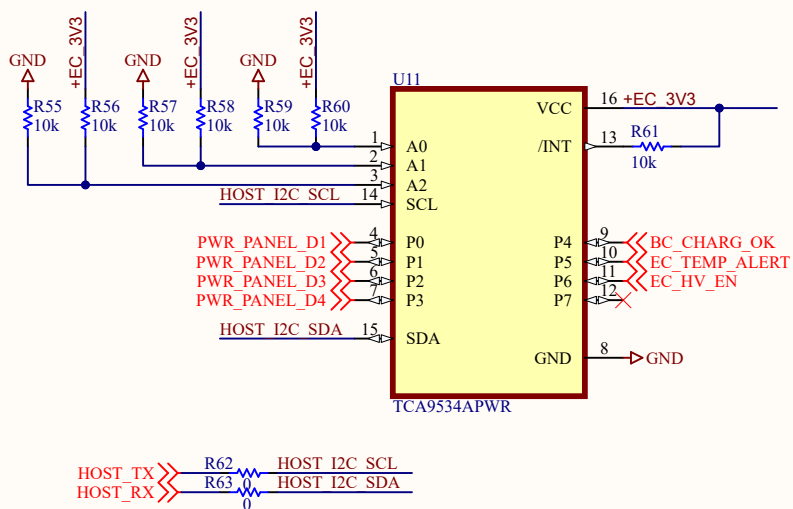


## I2C Assign Table

I2C1	0x12 TPS65987DDJ PD
	0x2E TPL0401A VRes
I2C2	0x12 BQ25710 Charger
	0x45 M117B Temp Sensor

Title			
Size A	Number		Revision
Date:	9/10/2023	Sheet of	
File:	E:\Projects\...\EC.SchDoc	Drawn By:	





Title		
Size A4	Number	Revision
Date:	9/10/2023	Sheet of
File:	E:\Projects\...\HostControl.SchDoc	Drawn By: