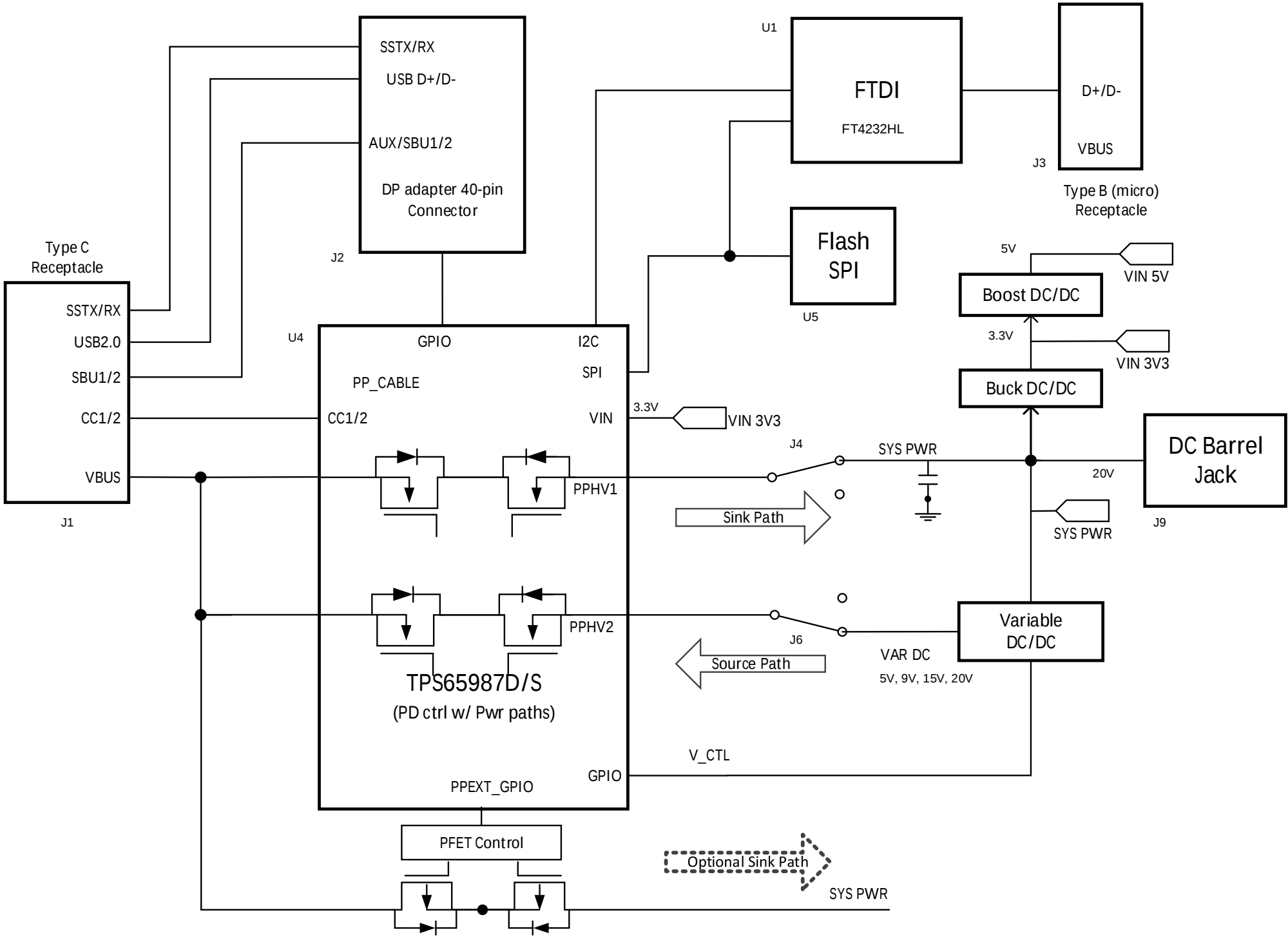
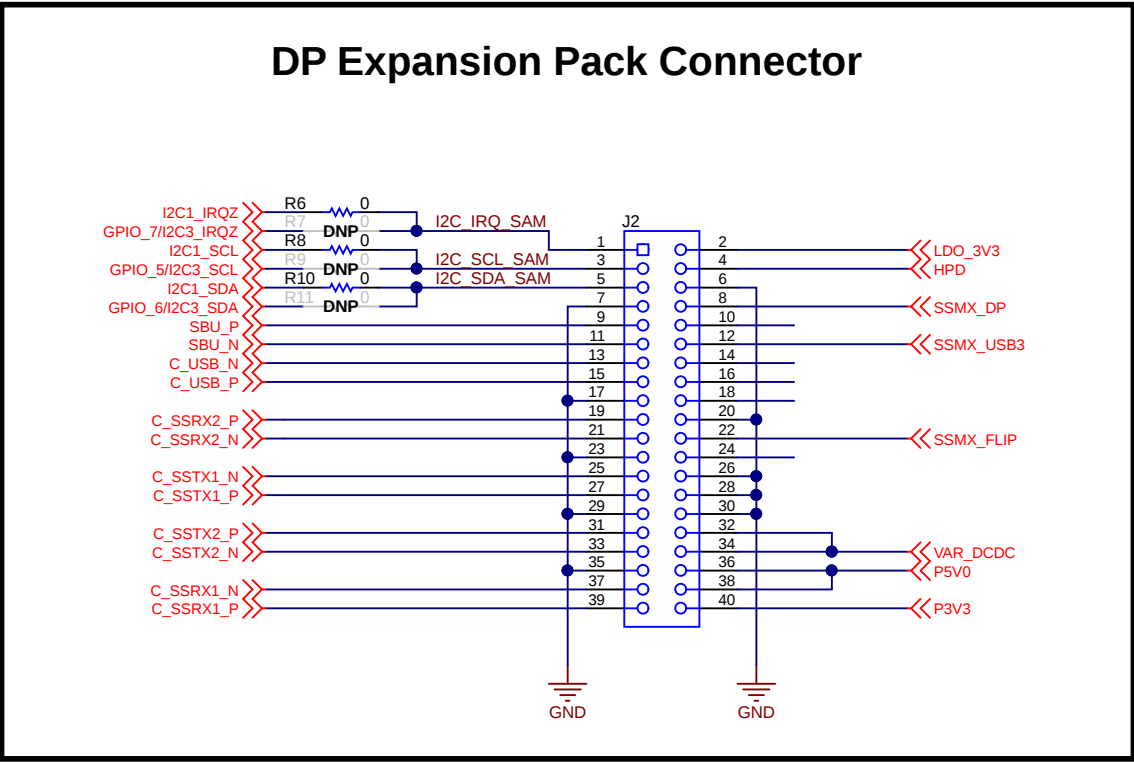
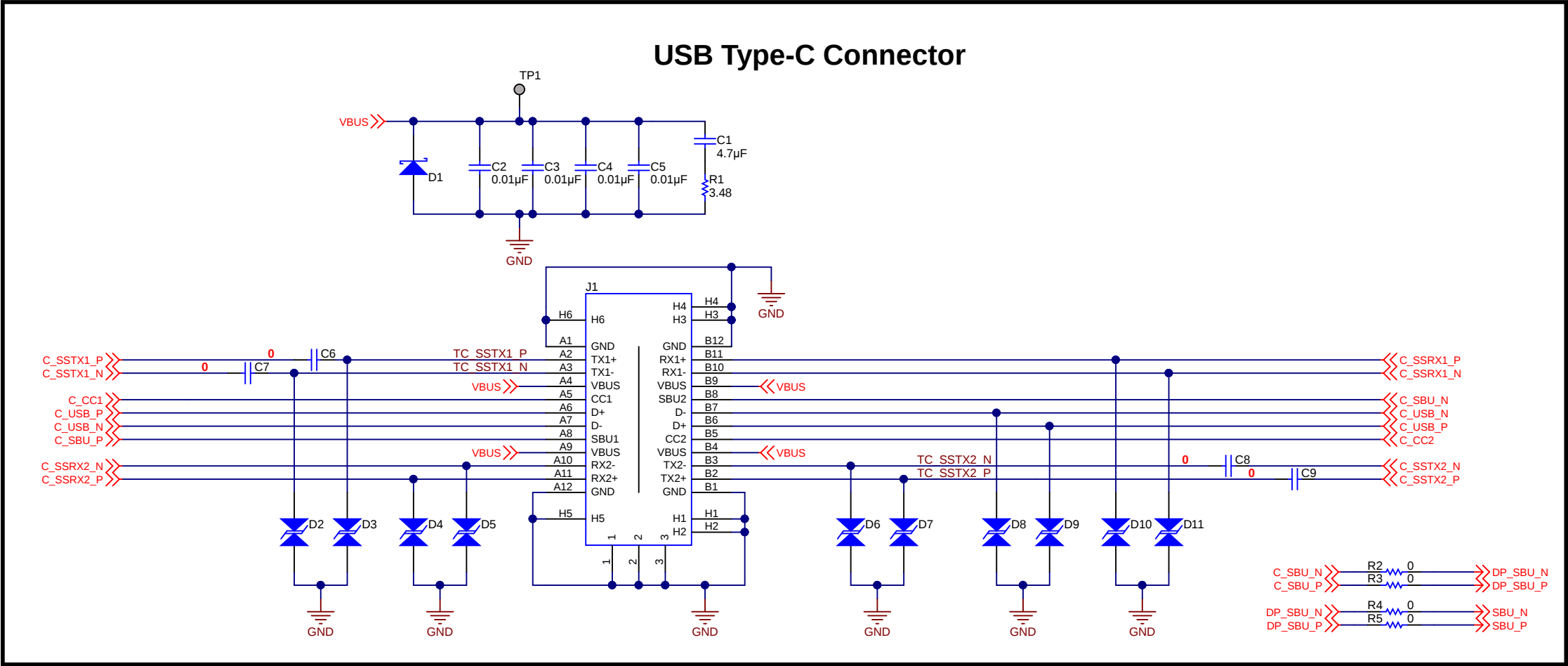




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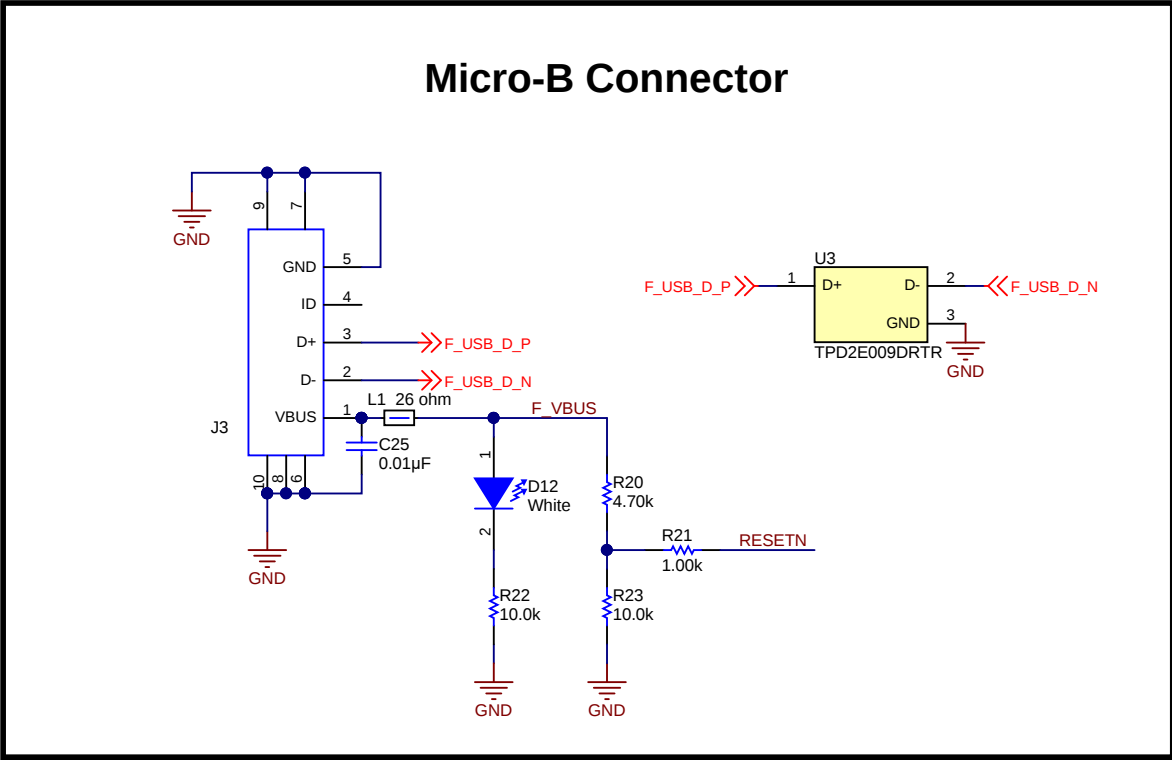
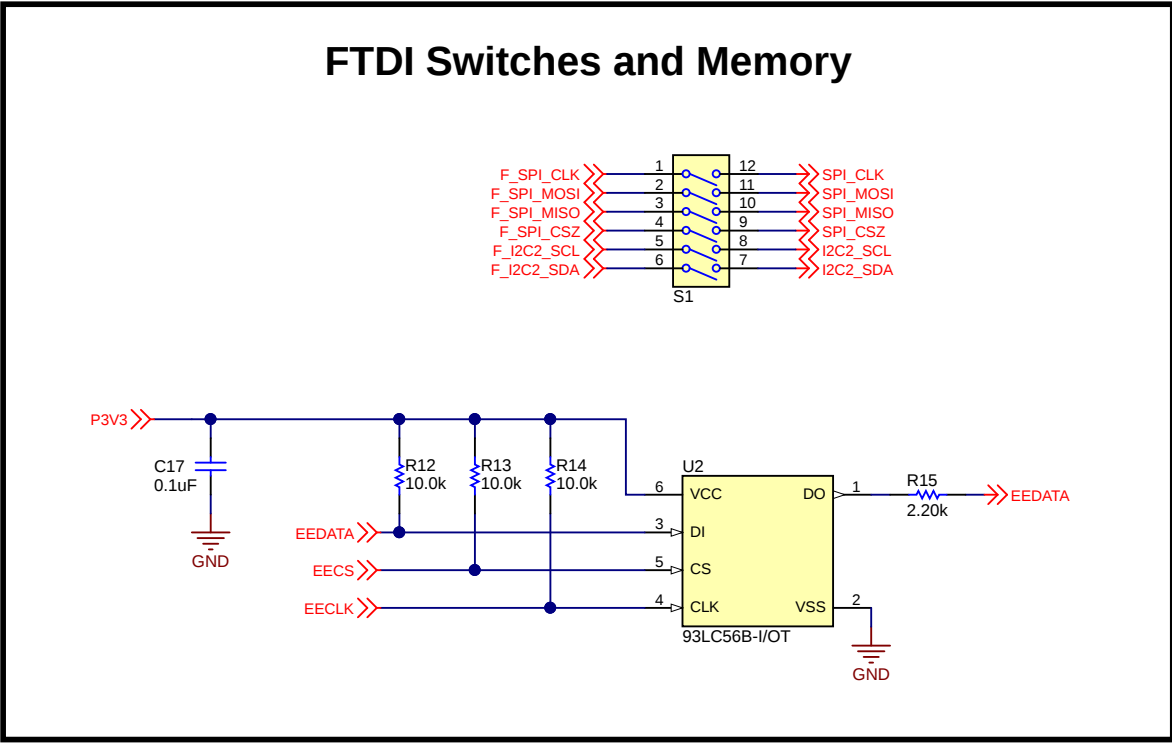
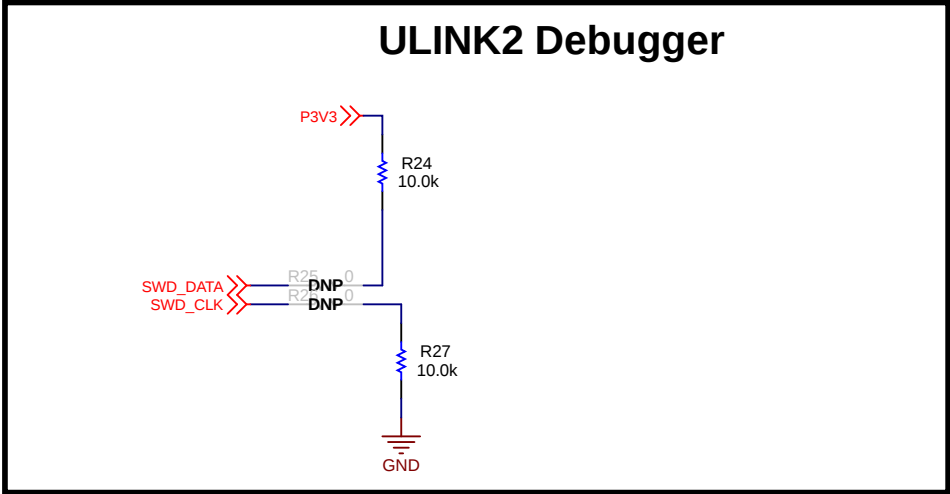
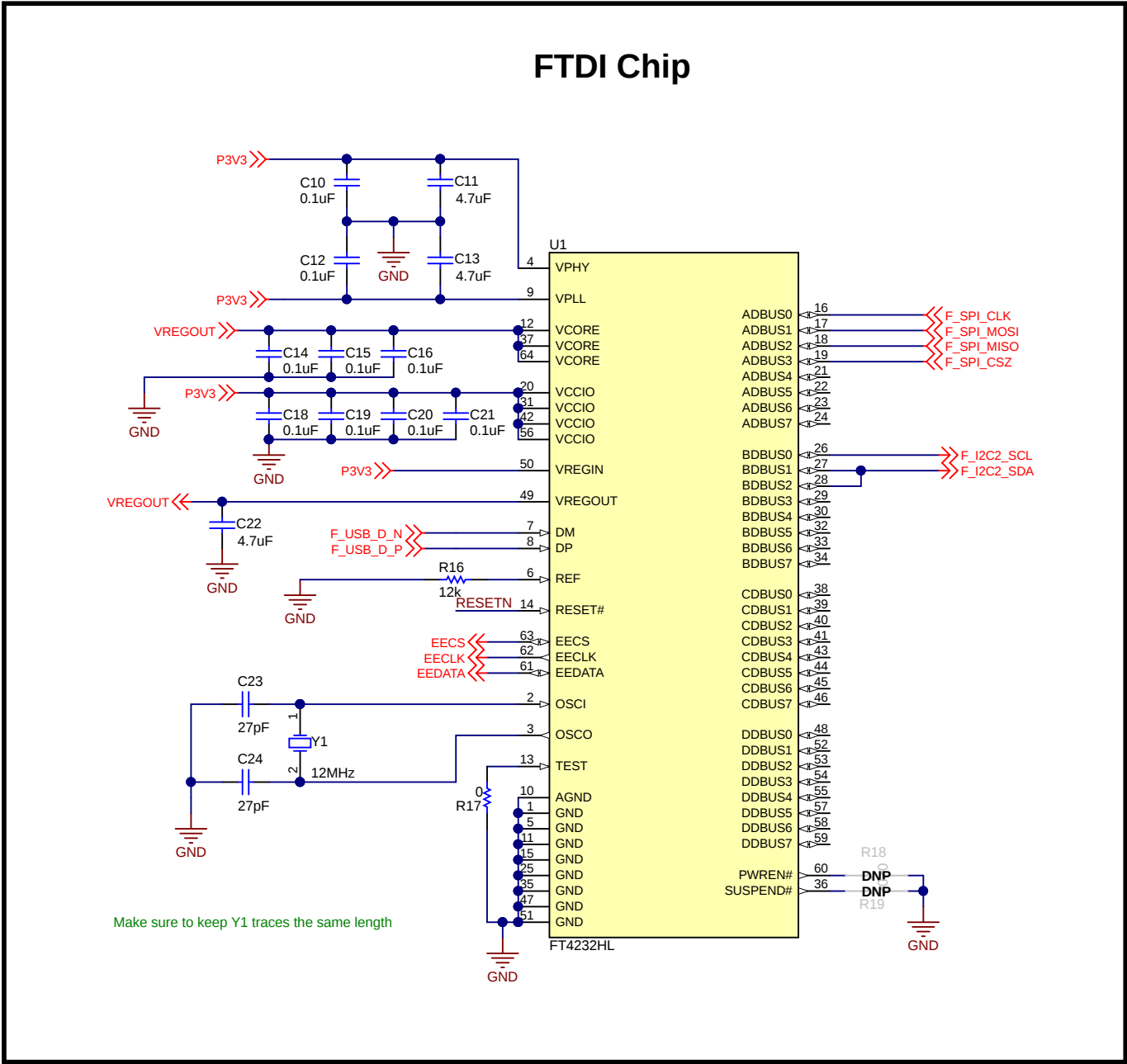
Orderable: TPS65987-90EVM	Designed for: Public Release	Mod. Date: 7/18/2018
TID #: N/A	Project Title: TPS65987-90EVM	
Number: PSIL034	Rev: C	Sheet Title: Cover Sheet
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 1 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_CoverSheet_SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	



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Orderable: TPS65987-90EVM	Designed for: Public Release	Mod. Date: 7/18/2018
TID #: N/A	Project Title: TPS65987-90EVM	
Number: PSIL034	Rev: C	Sheet Title: Connectors
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 2 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_Connectors.SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	

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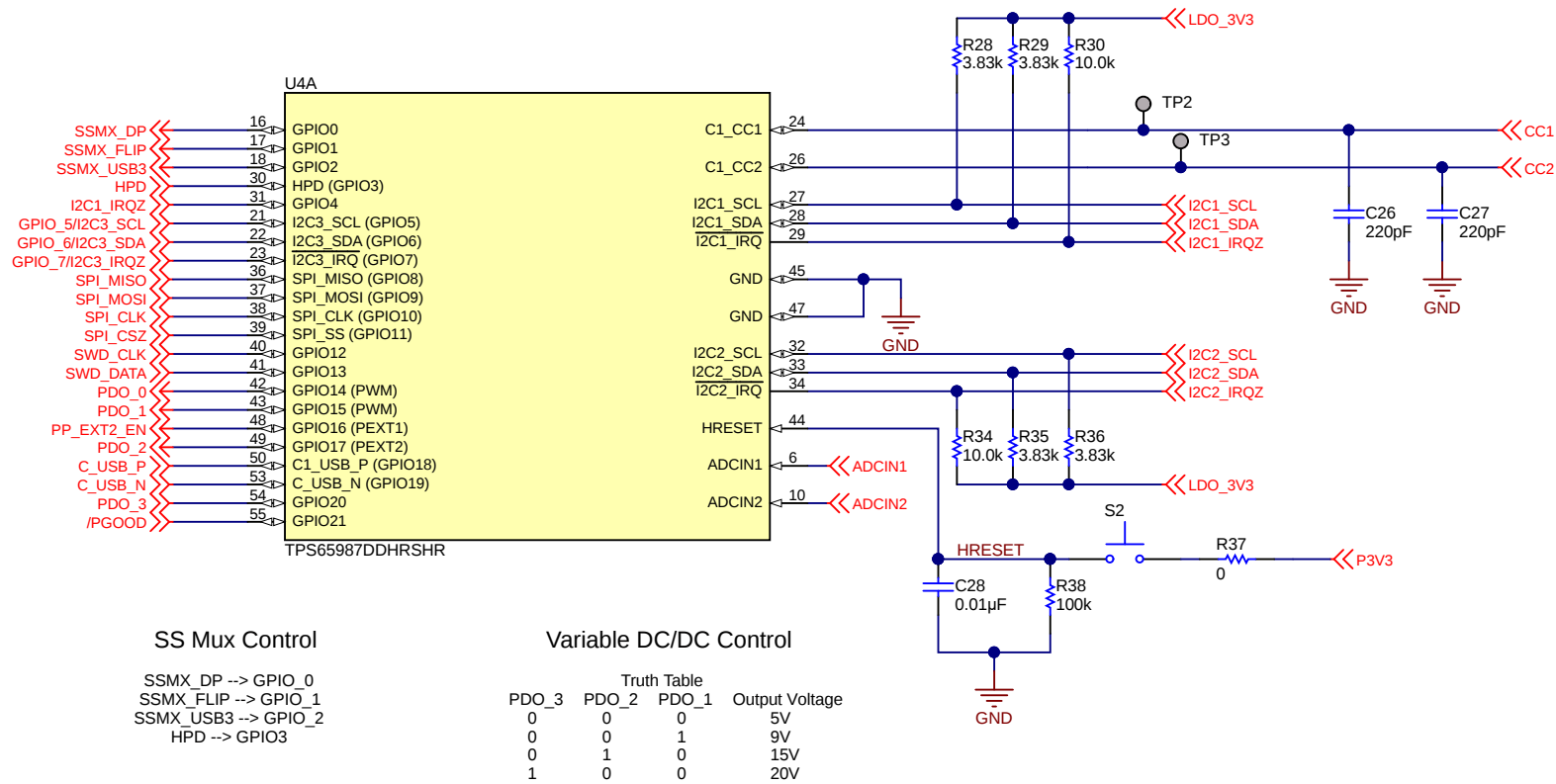
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Number: PSIL034	Rev: C	Sheet Title: FTDI
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 3 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_FTDI_SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	

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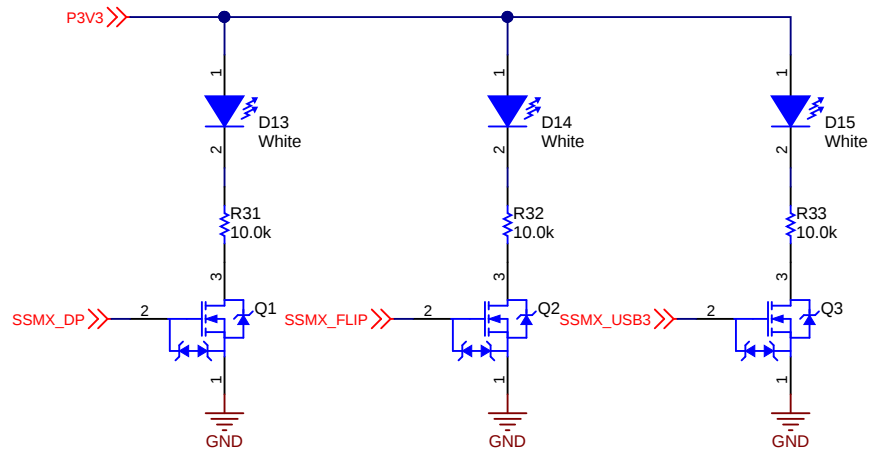
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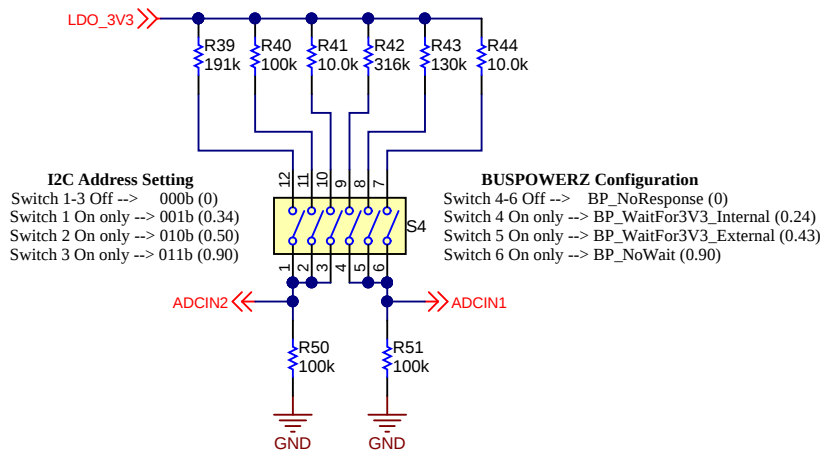
USB PD Controller



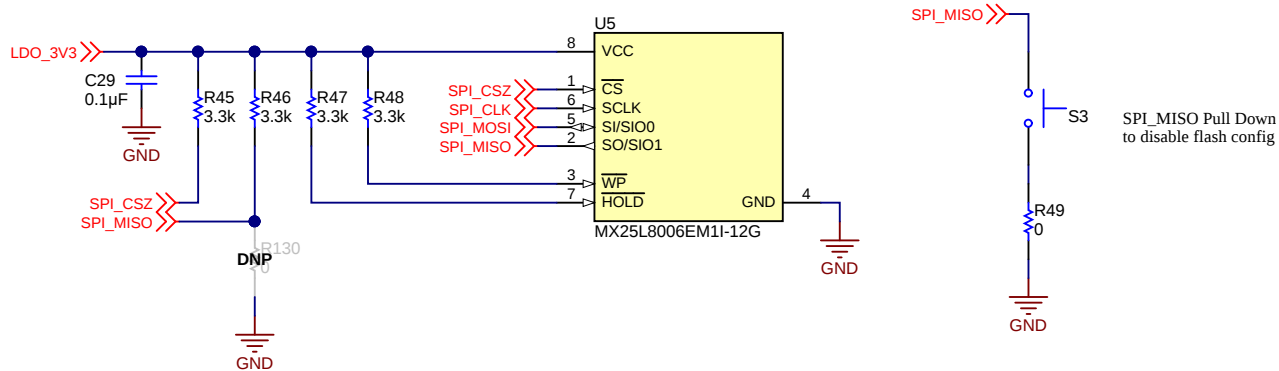
SS Mux Control LED's



ADCIN1:2 Resistor Divider Setting



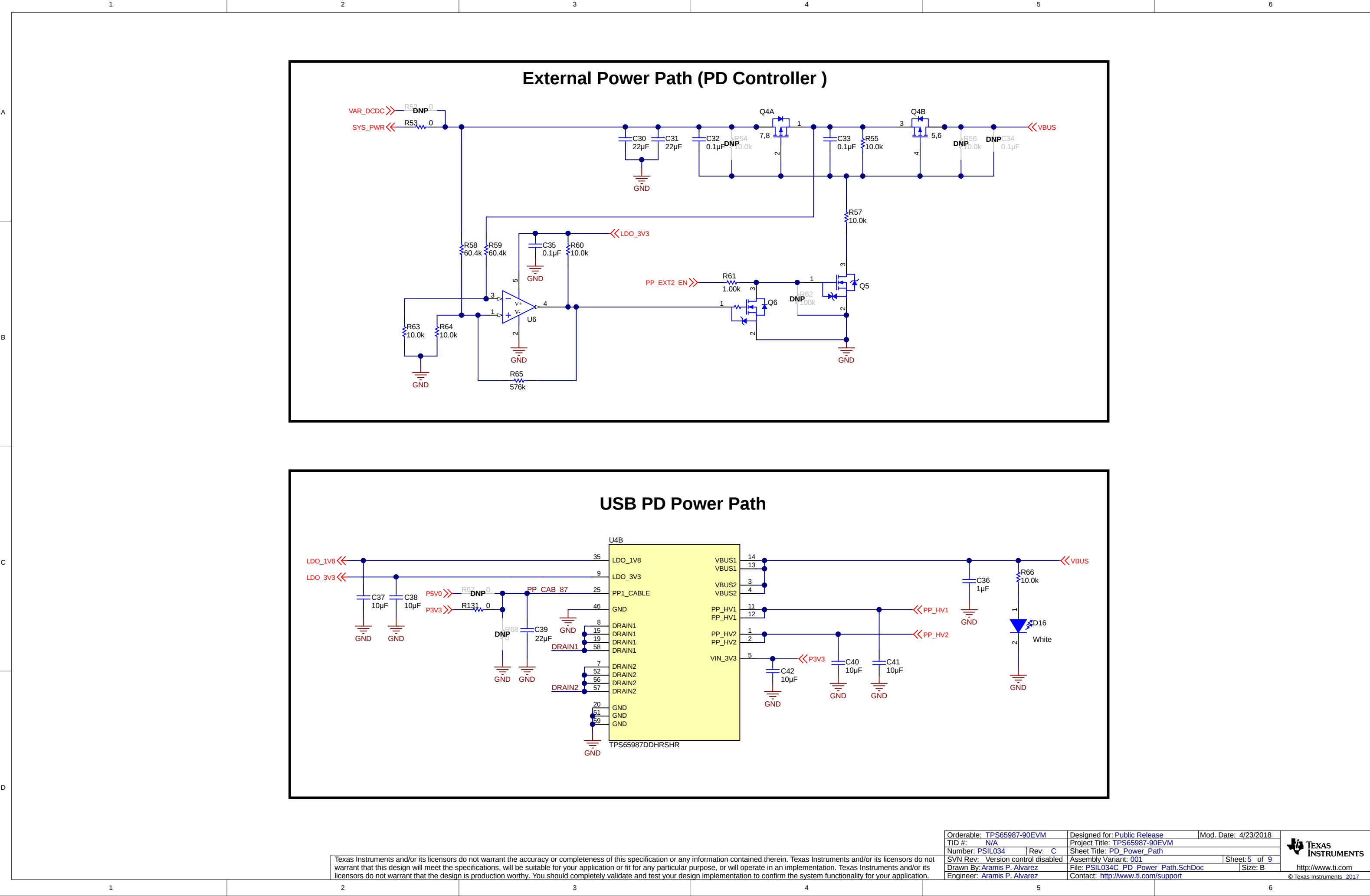
EEPROM



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Orderable: TPS65987-90EVM	Designed for: Public Release	Mod. Date: 7/18/2018
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Number: PSIL034	Rev: C	Sheet Title: PD_Controller
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 4 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_PD_Controller.SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	





1

2

3

4

5

6

A

B

C

D

External Power Path (PD Controller)

USB PD Power Path

Orderable: TPS65987-90EVM

TID #: N/A

Number: PSIL034

SVN Rev: Version control disabled

Drawn By: Aramis P. Alvarez

Engineer: Aramis P. Alvarez

Designed for: Public Release

Project Title: TPS65987-90EVM

Sheet Title: PD Power Path

Assembly Variant: 001

File: PSIL034C_PD_Power_Path.SchDoc

Contact: <http://www.ti.com/support>

Mod. Date: 4/23/2018

Sheet: 5 of 9

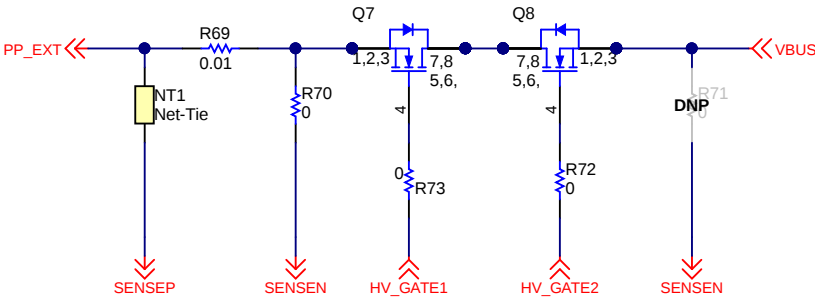
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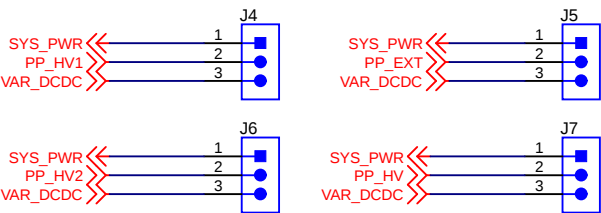
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External Power Path (Protection Controller)

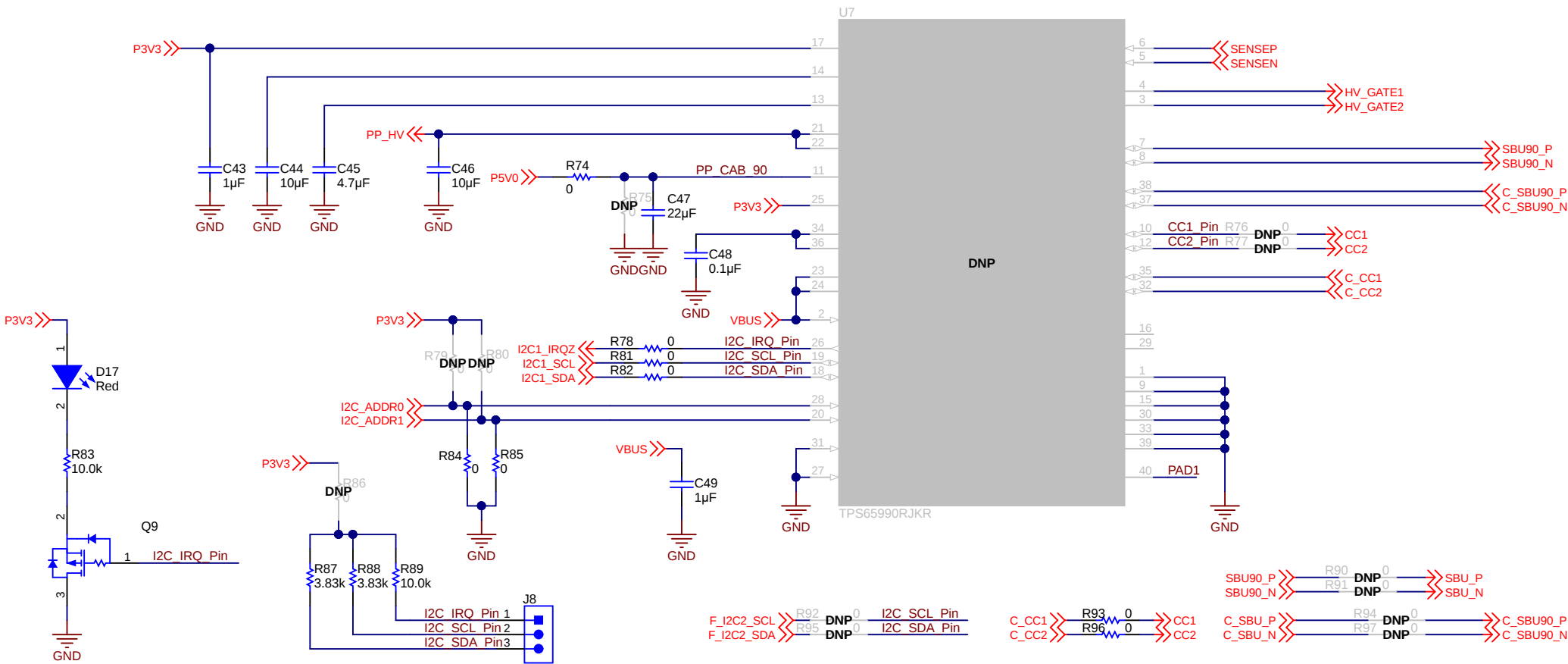


PP Jumpers

SYS_PWR ==>Sink from VBUS
VAR_DCDC==>Source to VBUS



Protection Controller w/ Internal Power Path

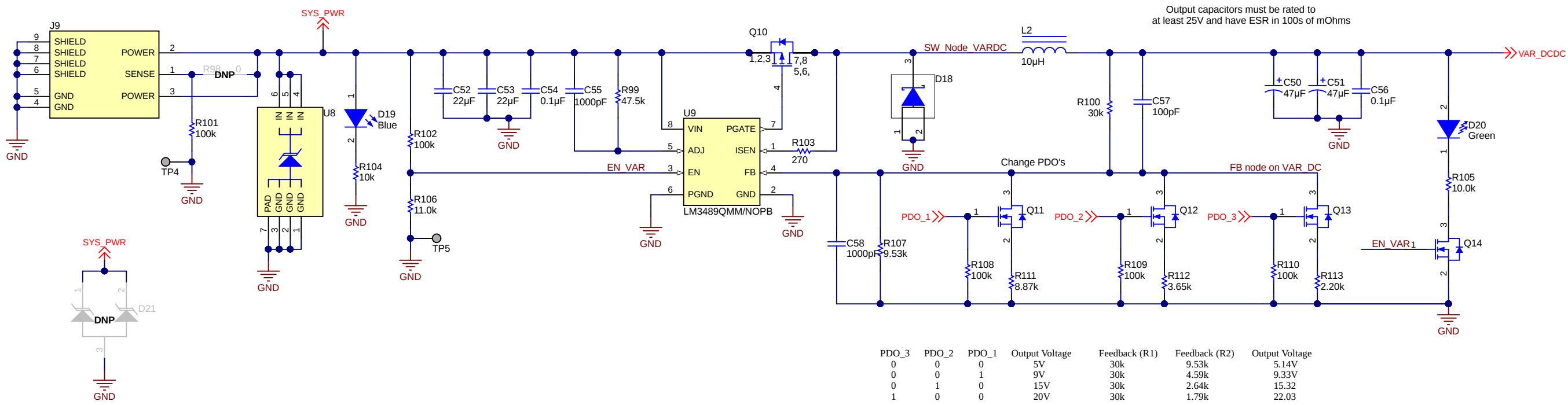


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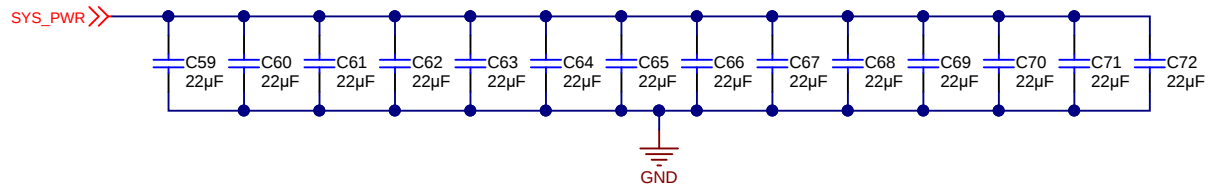
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Number: PSIL034	Rev: C	Sheet Title: Protection Power Path
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 6 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_Protection_Power_Path.SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	



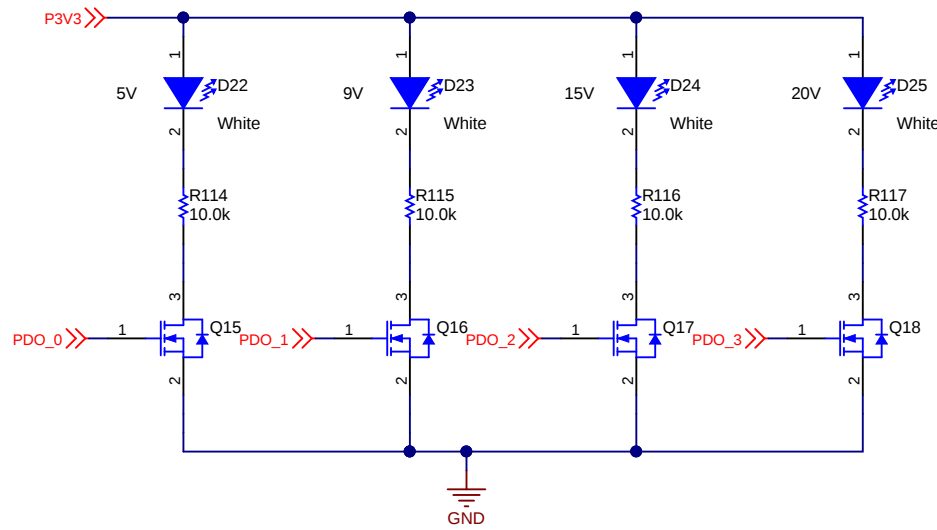
Variable DC/DC Convertor: 5V, 9V, 15V, 20V



Fast Role Swap Caps



Var. DC/DC Control LED's

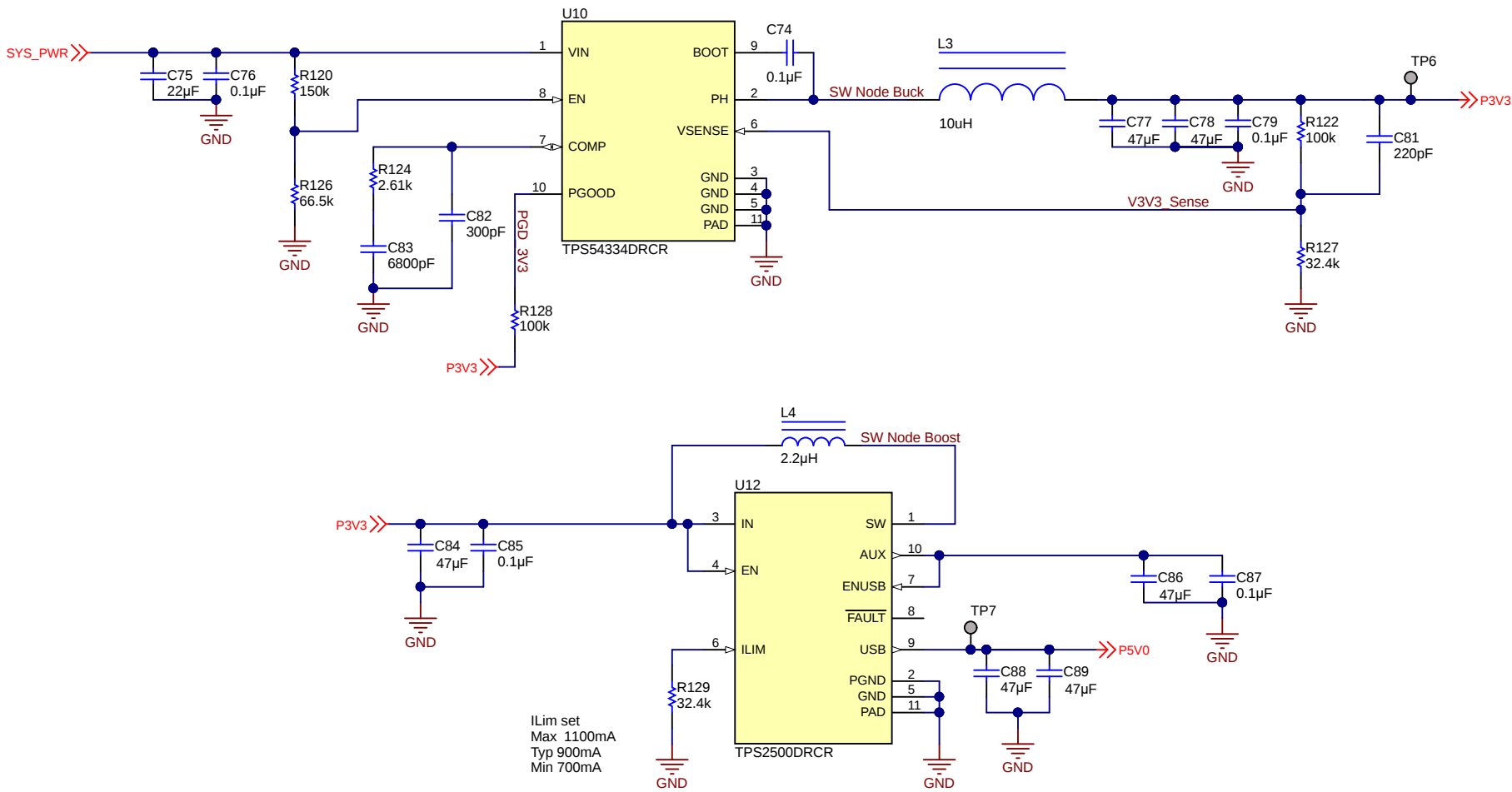


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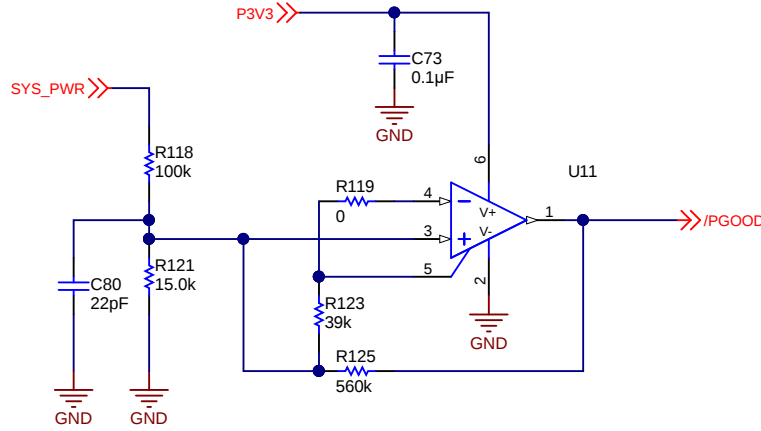
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Number: PSIL034	Rev: C	Sheet Title: Power Supply1
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 7 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_Power_Supply1_SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	

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Buck Convertor: SYS_PWR => 3.3V
&
Boost Convertor: 3.3V => 5V



Barrel Jack Detection



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Orderable: TPS65987-90EVM	Designed for: Public Release	Mod. Date: 2/13/2018
TID #: N/A	Project Title: TPS65987-90EVM	
Number: PSIL034	Rev: C	Sheet Title: Power_Supply2
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 8 of 9
Drawn By: Aramis P. Alvarez	File: PSIL034C_Power_Supply2_SchDoc	Size: B
Engineer: Aramis P. Alvarez	Contact: http://www.ti.com/support	



