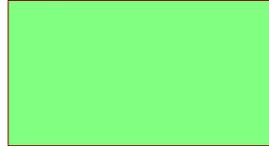


Revision History	
Revision	Notes

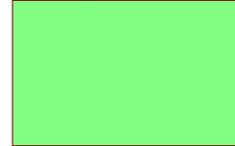
Designator  
BC24745\_24VtoBatt10A\_sch.SchDoc



Designator  
SV&12V\_sch.SchDoc



Designator  
MSP4308USB\_sch.SchDoc



Designator  
Hardware\_PMP9668A\_sch.SchDoc

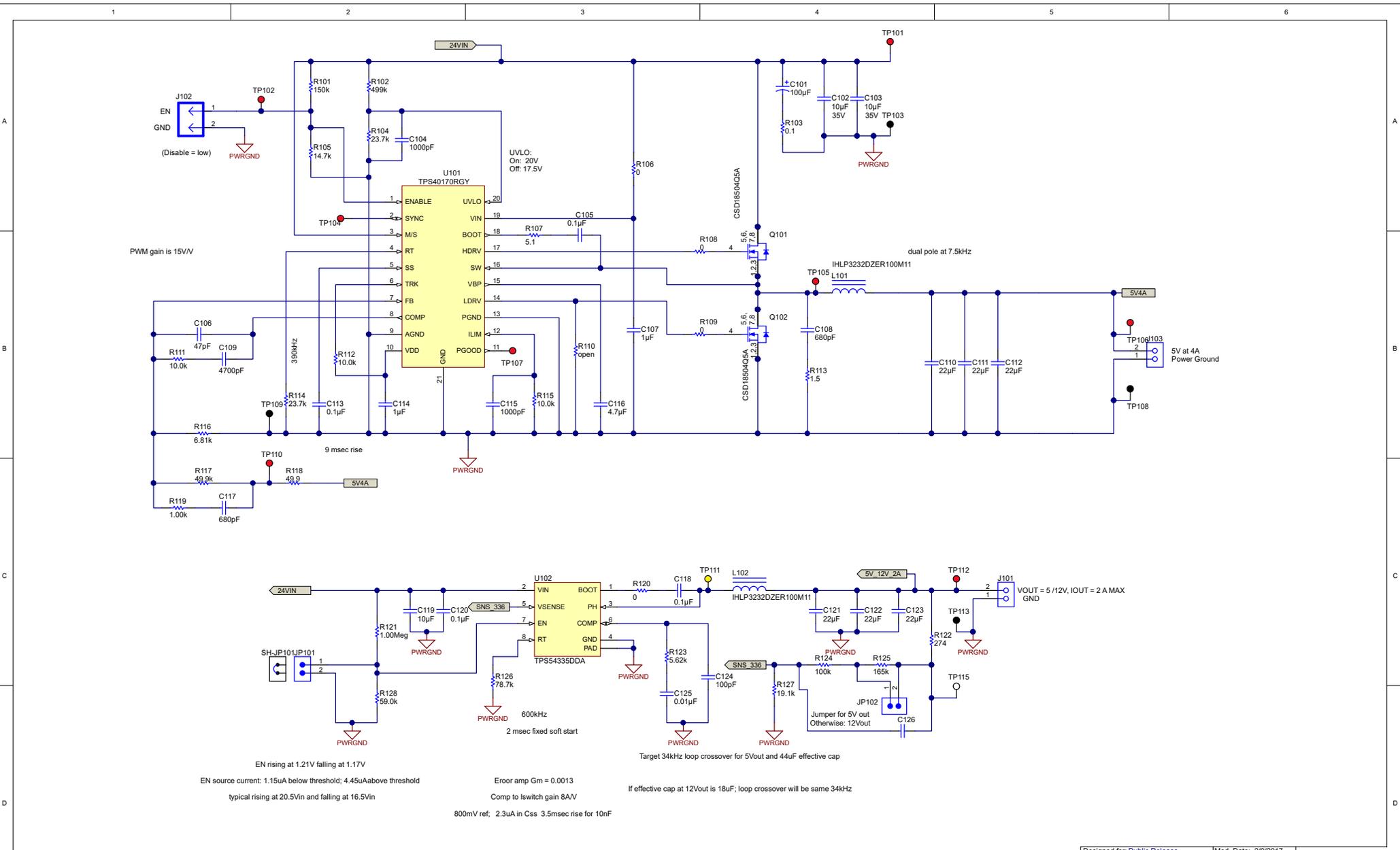


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Designed for: Public Release		Mod. Date: 2/9/2017	
Project Title: 24Vin_5Vout for Factory Automation & Robotics			
Sheet Title:			
Number: PMP15025	Rev: A	Assembly Variant: [No Variations]	Sheet: 1 of 5
SVN Rev: Version control disabled	Drawn By:	File: Cover Sheet_PMP9668A_sch.SchDoc	Size: B
Engineer: Josh Mandelcorn	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	<a href="http://www.ti.com">http://www.ti.com</a>	
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PWM gain is 15V/V

dual pole at 7.5kHz

EN rising at 1.21V falling at 1.17V

EN source current: 1.15uA below threshold; 4.45uA above threshold

typical rising at 20.5V/in and falling at 16.5V/in

Error amp Gm = 0.0013

Comp to lswitch gain 8A/V

800mV ref; 2.3uA in Ccss 3.5msec rise for 10nF

If effective cap at 12Vout is 18uF; loop crossover will be same 34kHz

Target 34kHz loop crossover for 5Vout and 44uF effective cap

Designed for: Public Release | Mod. Date: 2/9/2017

Project Title: 24Vin, 5Vout for Factory Automation & Robotics

Number: PMP15025 | Rev: A | Sheet Title: Assembly Variant: [No Variations] | Sheet: 3 of 5

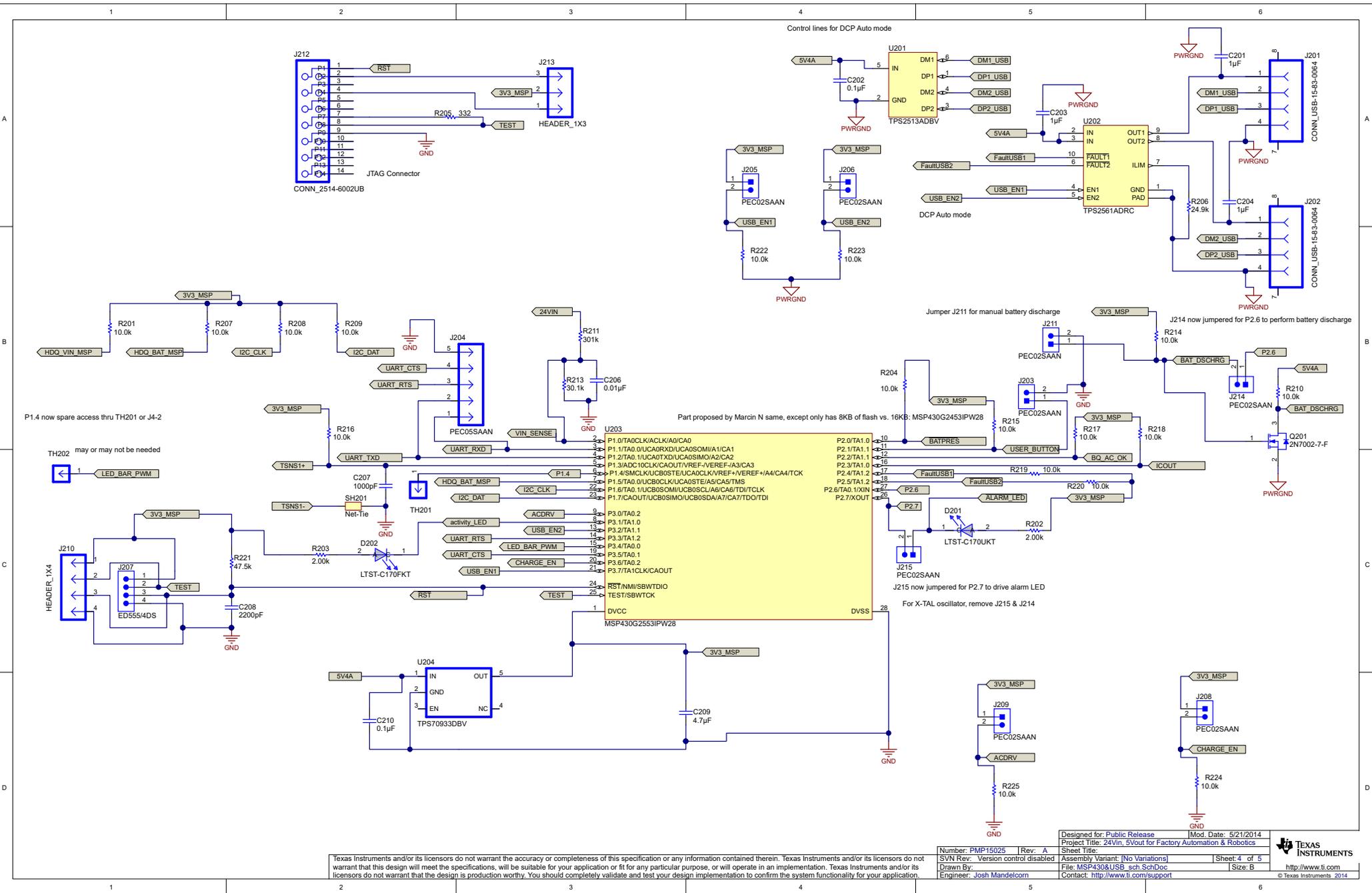
Drawn By: | File: 5V&12V\_sch\_SchDoc | Size: B

Engineer: Josh Mandelcom | Contact: <http://www.ti.com/support>

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Number: PMP15025	Rev: A	Mod. Date: 5/21/2014	 http://www.ti.com
SVN Rev: Version control disabled	Assembly Variant: [No Variations]	Sheet: 4 of 5	
Drawn By:	File: MSP430&USB_sch.SchDoc	Size: B	
Engineer: Josh Mandelcom	Contact: http://www.ti.com/support		
Project Title: 24Vin_5Vout for Factory Automation & Robotics Sheet Title:			



H1 NY PMS 440 0025 PH H2 NY PMS 440 0025 PH H3 NY PMS 440 0025 PH H4 NY PMS 440 0025 PH

H5 1902C H6 1902C H7 1902C H8 1902C

H9 SJ-5303 (CLEAR) H10 SJ-5303 (CLEAR) H11 SJ-5303 (CLEAR) H12 SJ-5303 (CLEAR)

FID1 FID2 FID3

PCB Number: PMP15025  
PCB Rev: A

PCB  
LOGO  
Texas Instruments

You should delete the nylon screws/standoffs and/or the bumpoms as needed for your design (or substitute other parts from Hardware.IntLib). Bumpoms are cheaper, but provide less clearance.

Deleting anything else from this page may result in your EVM submission being rejected (until you add them back).

Update the Label Text in the Label Table as needed for each Assembly Variant.

You can delete this note too.

Label Table

Variant	Label Text
001	ChangeMe!
002	ChangeMe!

LBL1  
PCB Label  
Size: 0.65" x 0.20"

ZZ1  
Label Assembly Note  
This Assembly Note is for PCB labels only

ZZ2  
Assembly Note  
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3  
Assembly Note  
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4  
Assembly Note  
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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Designed for: Public Release		Mod. Date: 4/11/2014	
Project Title: 24VIn, 5Vout for Factory Automation & Robotics			
Number: PMP15025	Rev: A	Sheet Title:	
SVN Rev: Version control disabled	Assembly Variant: [No Variations]	Sheet: 5	of 5
Drawn By:	File: Hardware_PMP9668A_sch.SchDoc	Size: B	
Engineer: Josh Mandelcorn	Contact: <a href="http://www.ti.com/support">http://www.ti.com/support</a>	<a href="http://www.ti.com">http://www.ti.com</a>	
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