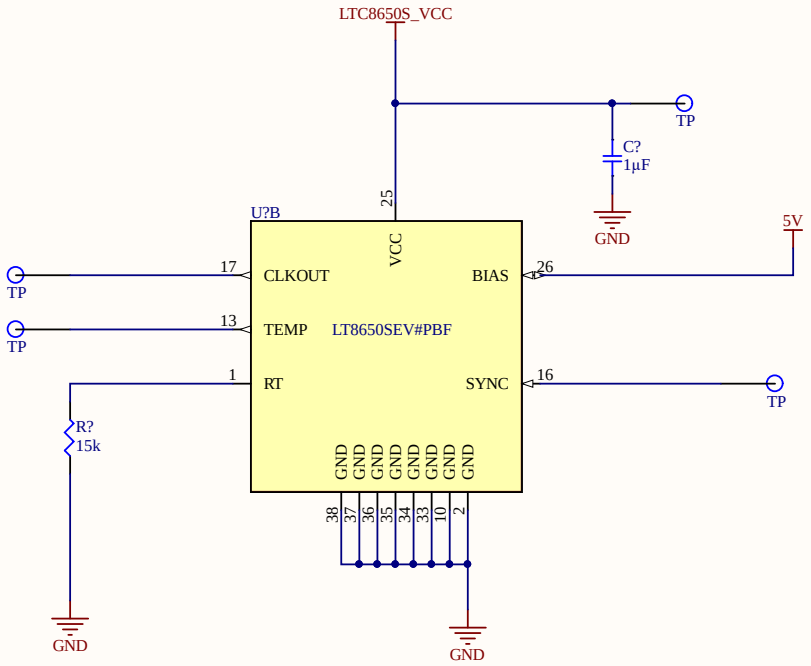
VBUS --> 5V
VBUS --> 3V3
CONTROL

Design: Soft-Start Time TBD
Design: Switching Frequency 2MHz
Design: FCM W/O SSM OR SYNC
Design: Do we want power cycling?

Design: LT8650S
Vout1: 5V 4A
Vout2: 3.3V 4A



Title	***power_CTL.schdoc***		
Size: A4	Number: 1	Revision: A	
Date: 9/28/2018	Time: 11:39:45 PM	Sheet 1 of 2	
File: C:\Users\Ryan Castle\Documents\git_repos\podiv-altium\src\prj\sch\power_CTL.schdoc			

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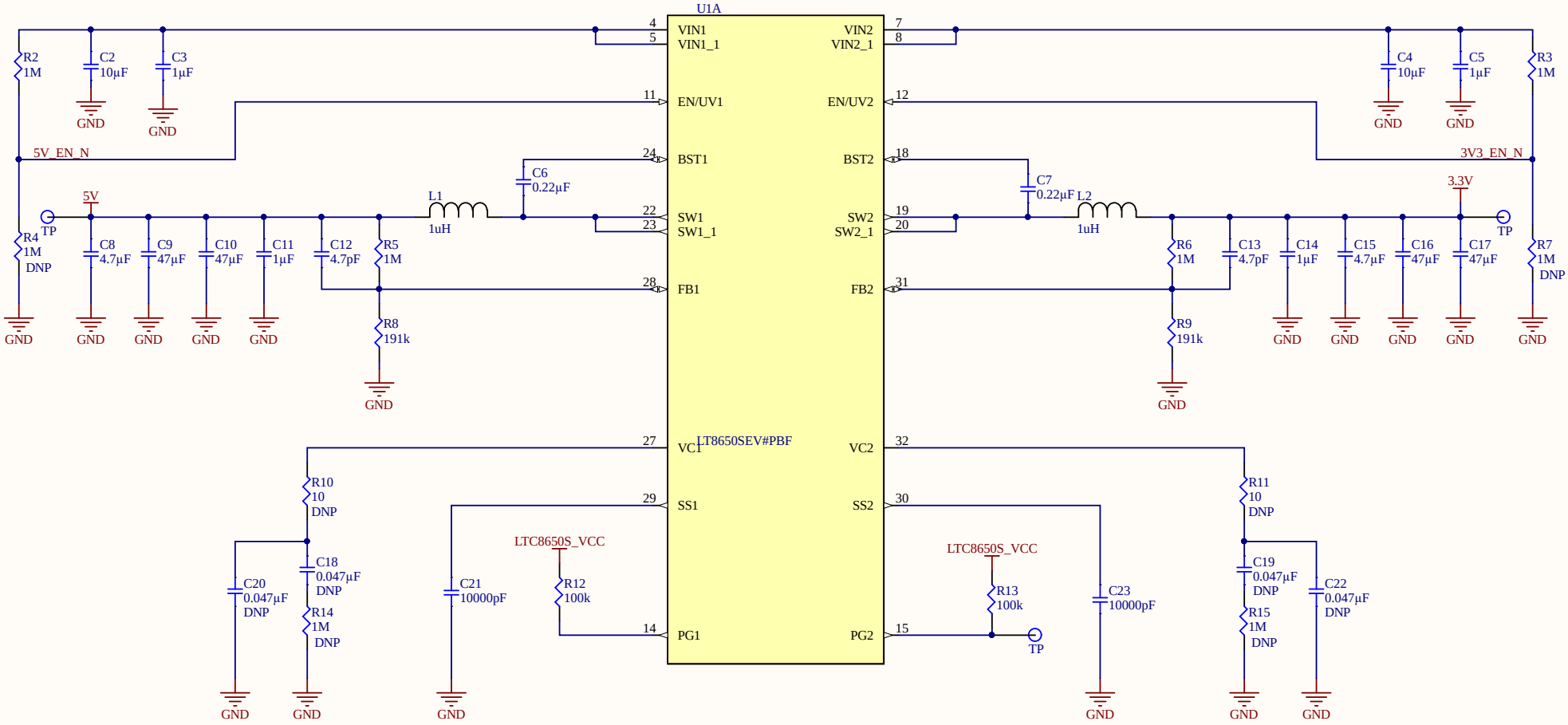
BADGER LOOP

VBUS --> 5V
PWR

VBUS --> 3V3
PWR



Title	POS5V.schdoc		
Size: A4	Number: 1	Revision: A	
Date: 9/28/2018	Time: 11:39:46 PM	Sheet 1 of 2	
File: C:\Users\Ryan Castle\Documents\git_repos\podiv-altium\src\prj\sch\power_PWR.schdoc			

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BADGER LOOP

Title	***nav_main_connector.schdoc***	
Size: A4	Number: 1	Revision: A
Date: 9/28/2018	Time: 11:39:46 PM	Sheet 2 of 2
File: C:\Users\Ryan Castle\Documents\git_repos\podiv-altium\src\prj\sch\power_main_connector.SchDoc		

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BADGER LOOP

Comment	Description	Designator	Footprint	LibRef	Quantity
10µF	CAP CER 10UF 50V X5R 1206	C2, C4	SMD-1206C	GRM31CR61H106KA12L	2
1µF	CAP CER 1UF 50V X7R 0805	C3, C5	SMD-0805C	GCJ21BR71H105KA01L	2
0.22µF	CAP CER 0.22UF 25V X7R 0603	C6, C7	SMD-0603C	GCJ188R71E224KA12D	2
4.7µF	CAP CER 4.7UF 25V X5R 0603	C8, C15	SMD-0603C	GRM188R61E475KE11D	2
47µF	CAP CER 47UF 10V X5R 1206	C9, C10, C16, C17	SMD-1206C	GRM31CR61A476ME15L	4
1µF	CAP CER 1UF 50V X5R 0603	C11, C14, C?	SMD-0603C	GRM188R61H105KAALD	3
4.7pF	CAP CER 4.7PF 50V NP0 0603	C12, C13	SMD-0603C	GRM1885C1H4R7CA01D	2
0.047µF	CAP CER 0.047UF 16V X7R 0402	C18, C19, C20, C22	SMD-0402C	GCM155R71C473KA37D	4
10000pF	CAP CER 10000PF 25V X7R 0603	C21, C23	SMD-0603C	GRM188R71E103KA01D	2
1uH	XFL5030-102ME	L1, L2	IND_TAIYO_CBC201	IND 1.0uH 5.48x5.28x3.1mm 5mOhm ESR	2
1M	RES SMD 1M OHM 1% 1/10W 0402	R2, R3, R4, R5, R6, R7, R14, R15	SMD-0402-RES	ERJ-2RKF1004X	8
191k	RES SMD 191K OHM 1% 1/10W 0402	R8, R9	SMD-0402-RES	ERJ-2RKF1913X	2
10	RES SMD 10 OHM 5% 1/10W 0402	R10, R11	SMD-0402-RES	ERJ-2GEJ100X	2
100k	RES SMD 100K OHM 5% 1/10W 0402	R12, R13	SMD-0402-RES	ERJ-2GEJ104X	2
15k	RES SMD 15K OHM 5% 1/10W 0402	R?	SMD-0402-RES	ERJ-2GEJ153X	1
TP		TP1, TP6, TP7, TP?	Test Point	TP	7
LT8650SEV#PBF	LT8650S - Dual Channel 4A, 42V, Synchronous Step-Down Silent Switcher 2 with 6.2ÂµA Quiescent Current	U1, U?	QFN50P600X400X103-32N240X440	LT8650SEV#PBF	2