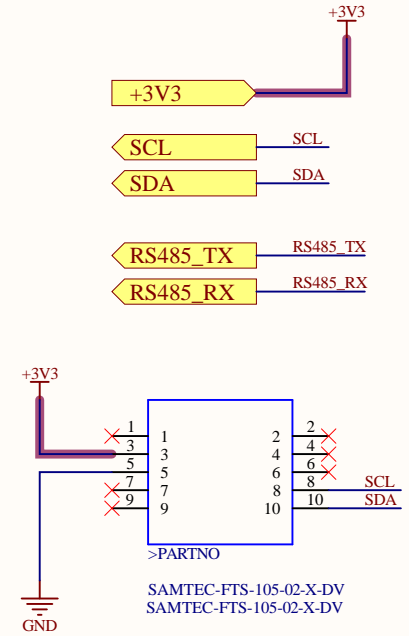
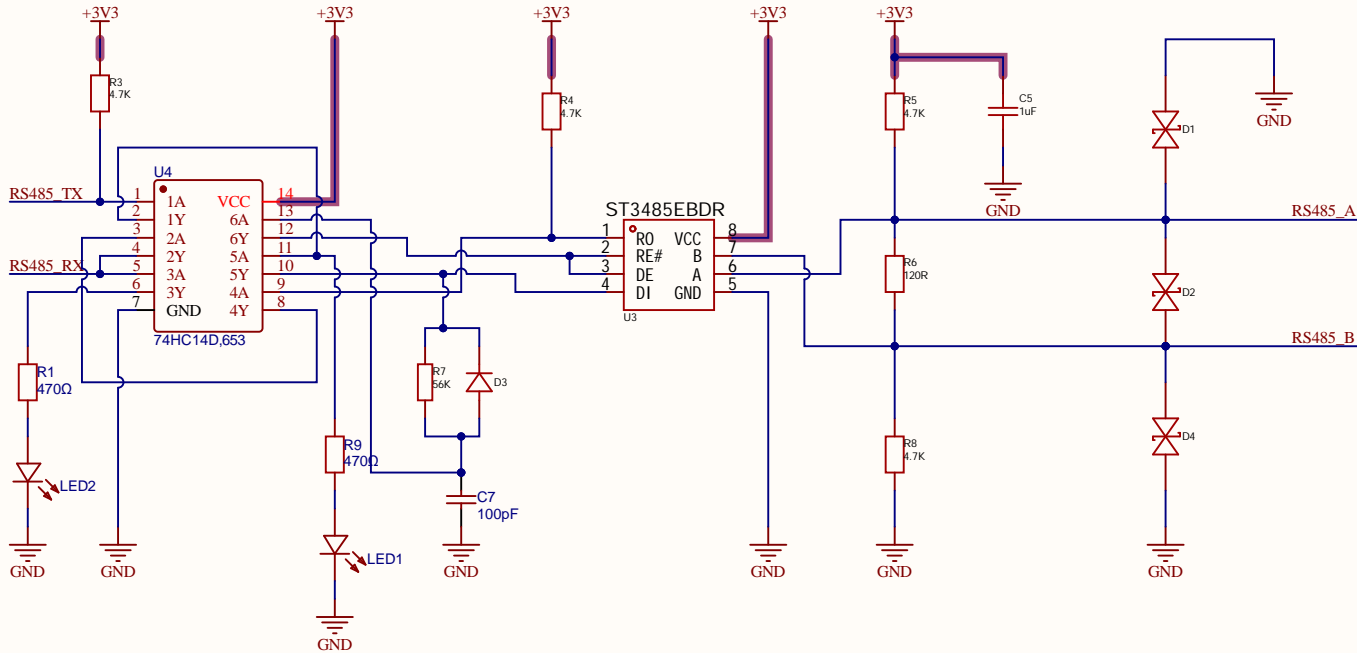
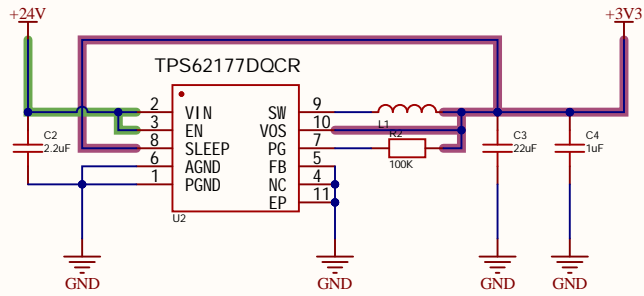


## Power COnversion (24V to 3V3)



Page No. 2	Schematic Name	Buck_Converter.SchDoc	Check(1) HW Eng.	Check(2) SW Eng.	Approval(1)	Approval(2)	Company	*	
Rev. No.	Designed By	Omar Faruk Badhon					Address	*	
							Dept. Name	R&D	



Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	16V 100nF X7R ±10% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C1, C8	C0603	Cap 100nF	2
2.2uF	Cap 2.2uF 35V	C2	C0402	GRM155R6YA225KE11 D	1
22uF	Cap 22uF 16V	C3	C0805	GRM21BC81C226ME4 4L	1
1uF	Cap 1uF 16V	C4	C0603	GCM188R71C105KA6 4D	1
1uF	Cap 1uF 16V	C5		GCM188R71C105KA6 4D	1
4.7uF	16V 4.7uF X7S ±10% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C6	C0603	GRM188C71C475KE21 D	1
100pF	Cap 100pF 50V	C7		100pF	1
SMAJ58CA		D1, D2, D4		SMAJ58CA_C148235	3
1N4148W		D3		1N4148W	1
SAMTEC-FTS-105-02-X-DV	Connector	J1		SAMTEC-FTS-105-02-X-DV	1
LPS4018-103MRC	Inductor 10uH	L1	IND-SMD_L3.9-W3.9-1	LPS4018-103MRC	1
VLMS1300-GS08	Led	LED1, LED2	LED0603-R-RD_RED	VLMS1300-GS08	2
470Ω	Res 470R	R1, R9		470Ω	2
100K	Res 100K 50V	R2	R0402	ERA2AEB104X	1
4.7K	Res 4.7K	R3, R4, R5, R8		ERJPA3F4701V	4
120R	Res 120R	R6		ERJPA3F1200V	1
56K	Res 56K	R7		ERJ3EKF5602V	1
TSA020B3418A02		SW1	SW-SMD_BZCN_YTSA020X XXX	Push Button	1
STM32G030K8T6		U1		STM32G030K8T6	1
TPS62177DQCR		U2	WSON-10_L3.0-W2.0-P0.50-BL-EP	TPS62177DQCR	1
ST3485EBDR		U3		ST3485EBDR	1
74HC14D,653		U4		74HC14D,653	1
32Mhz		X1	OSC-SMD_4P-L7.0-W5.0-BL_SG7050	Crystal	1