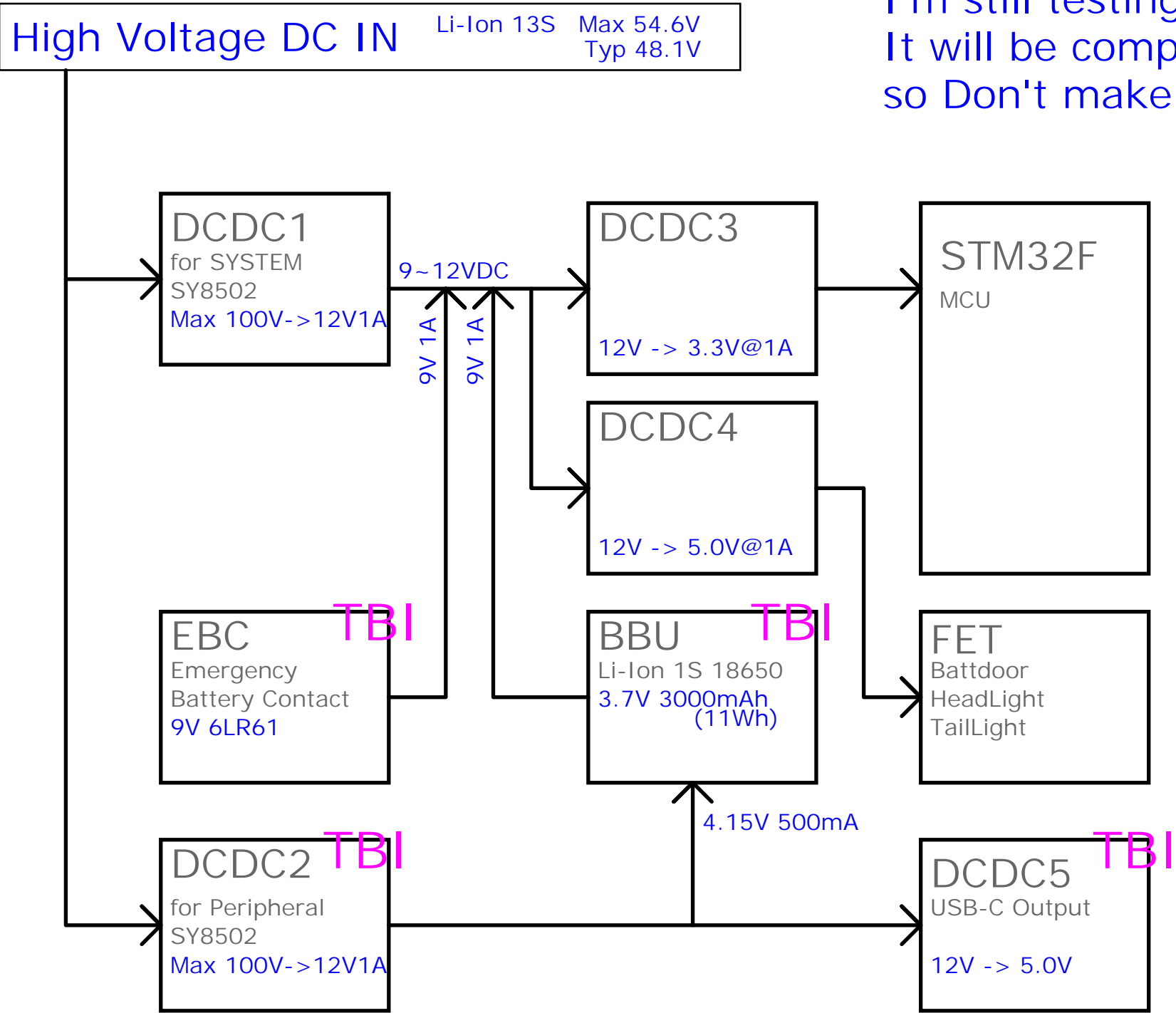


Mijia M365 ESC
Modified by GhostUser#2863

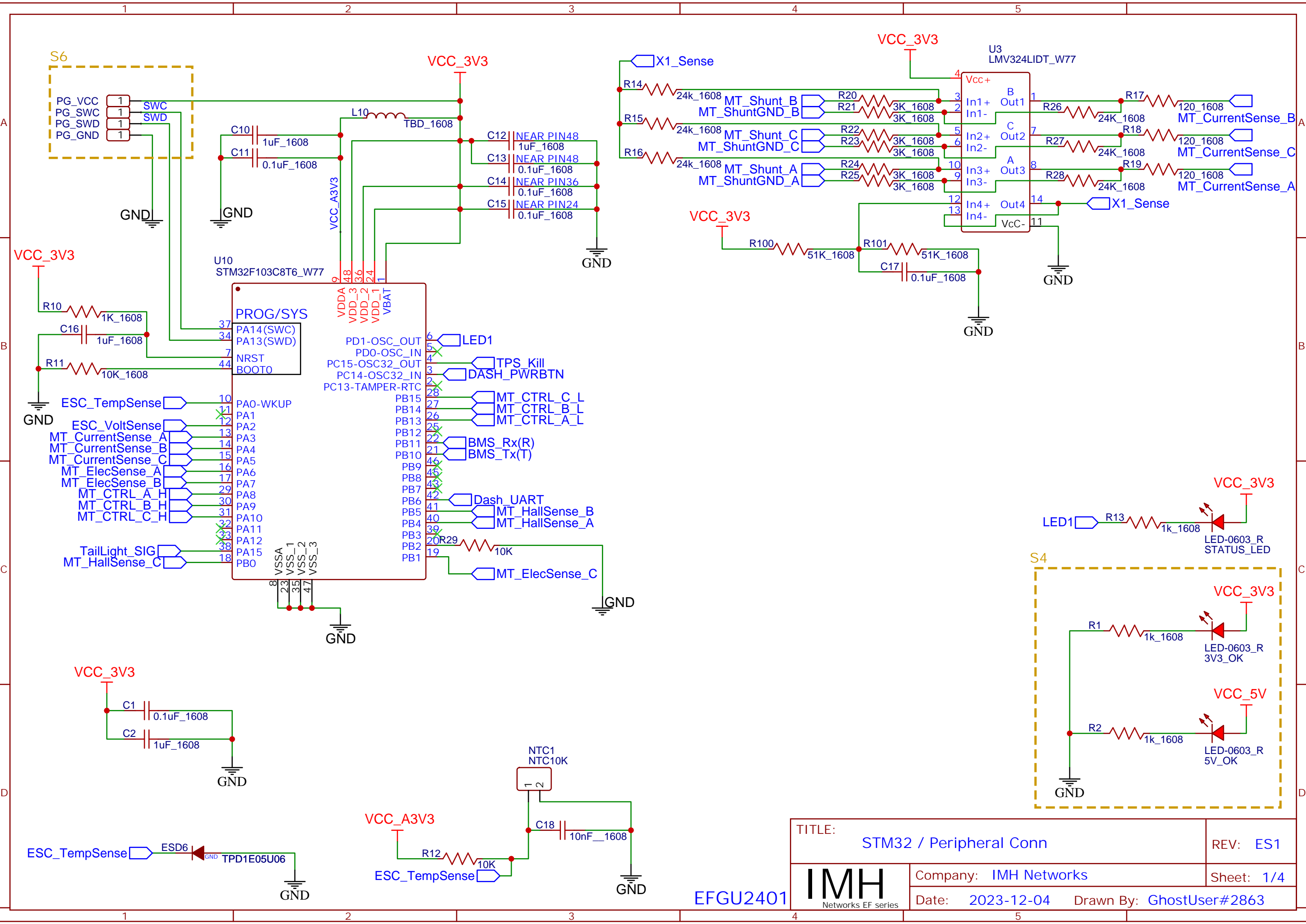
20240420 :
No, You Cannot use this thing yet
I'm still testing it and don't know where the error will be.
It will be completed in the middle of this year
so Don't make PCB with this yet.



TBI (To Be Implemented)

TITLE: Block Diagram(Power)		REV: ES1
IMH Networks EF series	Company: IMH Networks	Sheet: 0/4
	Date: 2023-12-04	Drawn By: GhostUser#2863

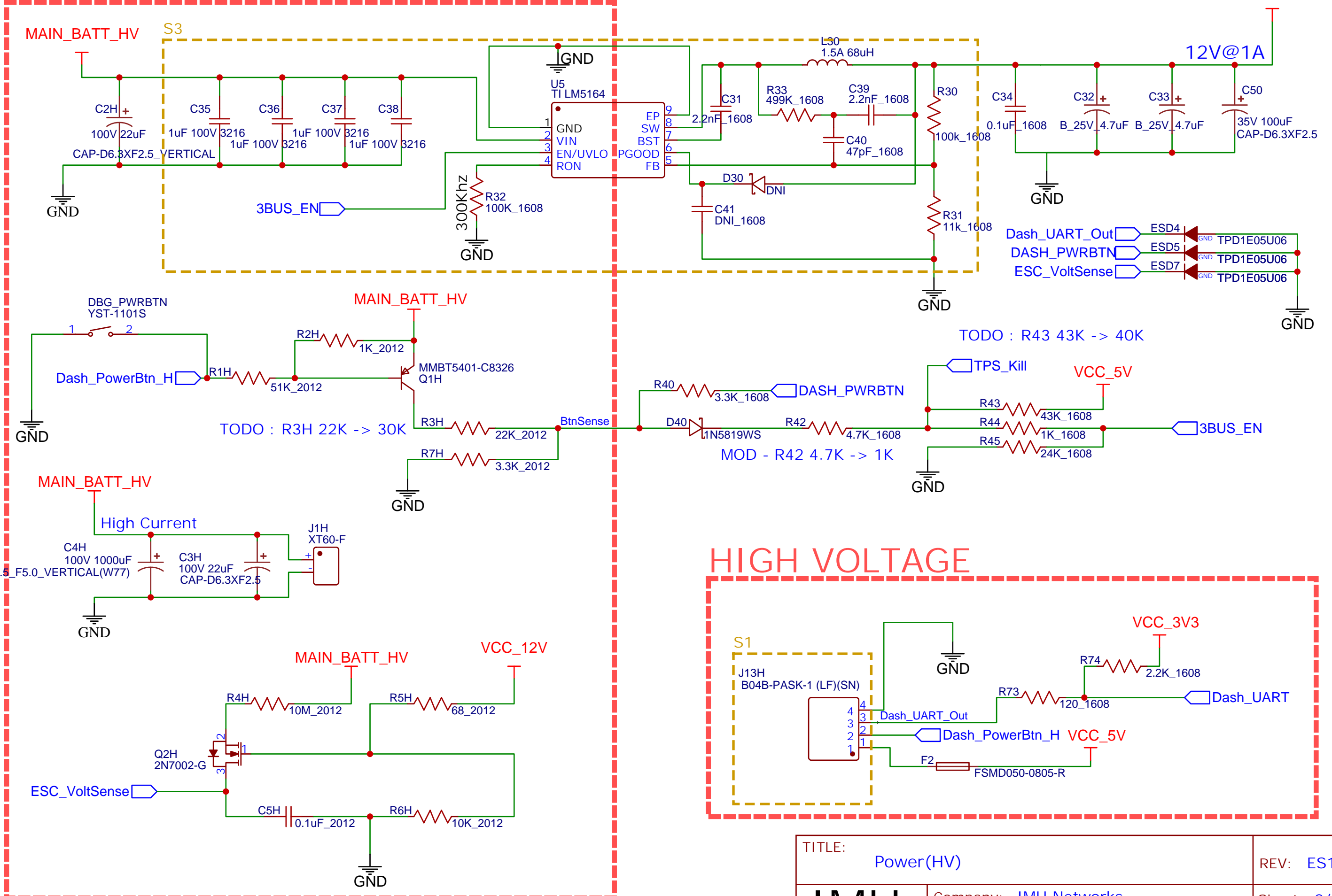
EFGU2401



TITLE: STM32 / Peripheral Conn		REV: ES1
EFGU2401	Company: IMH Networks	Sheet: 1/4
	Date: 2023-12-04	Drawn By: GhostUser#2863

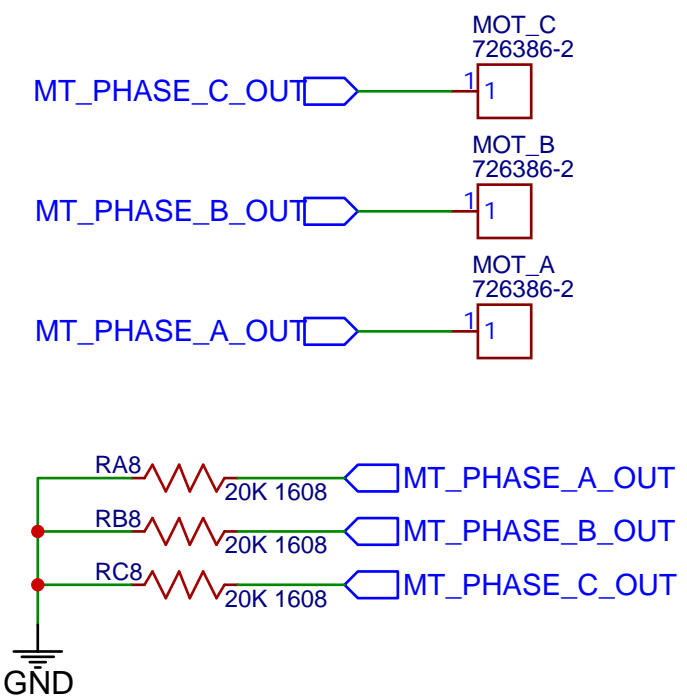
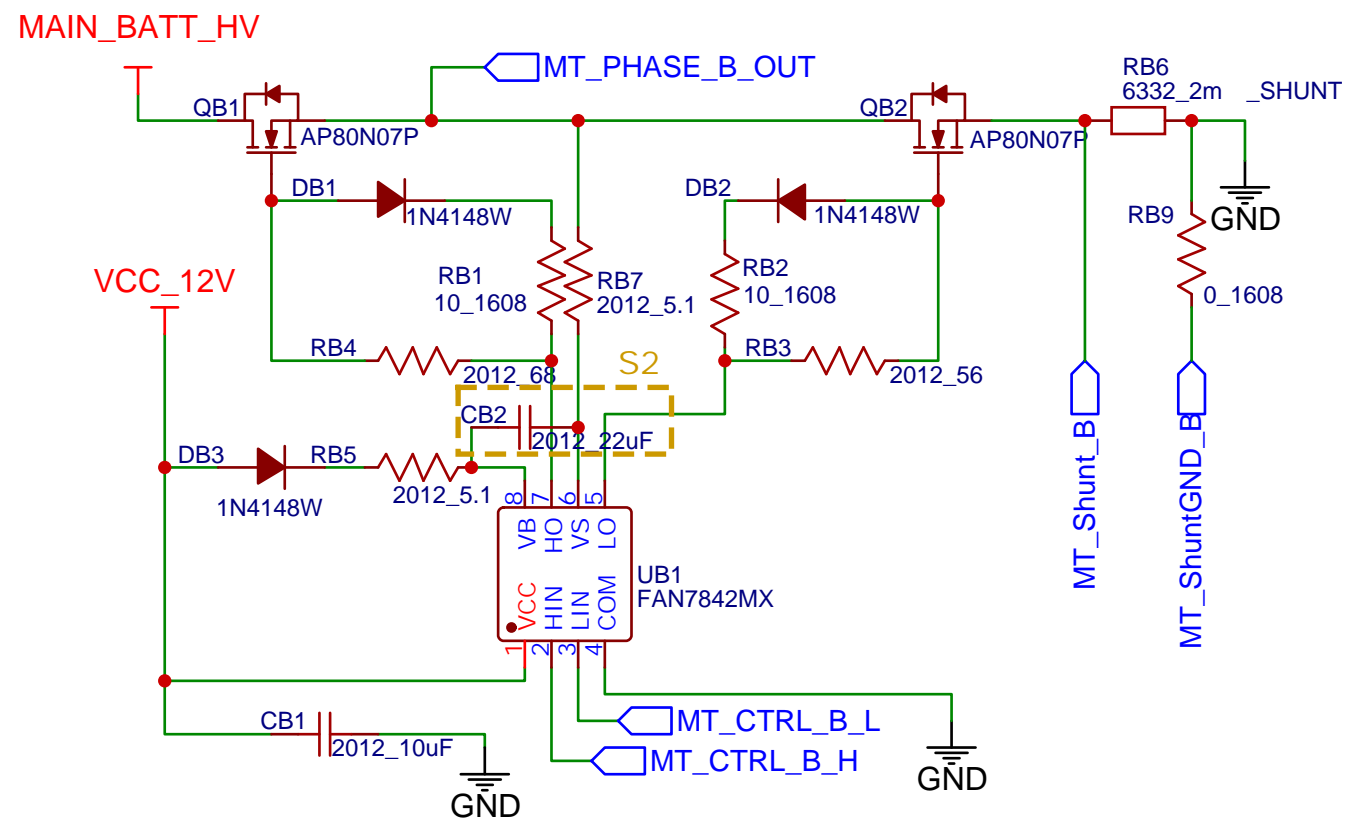
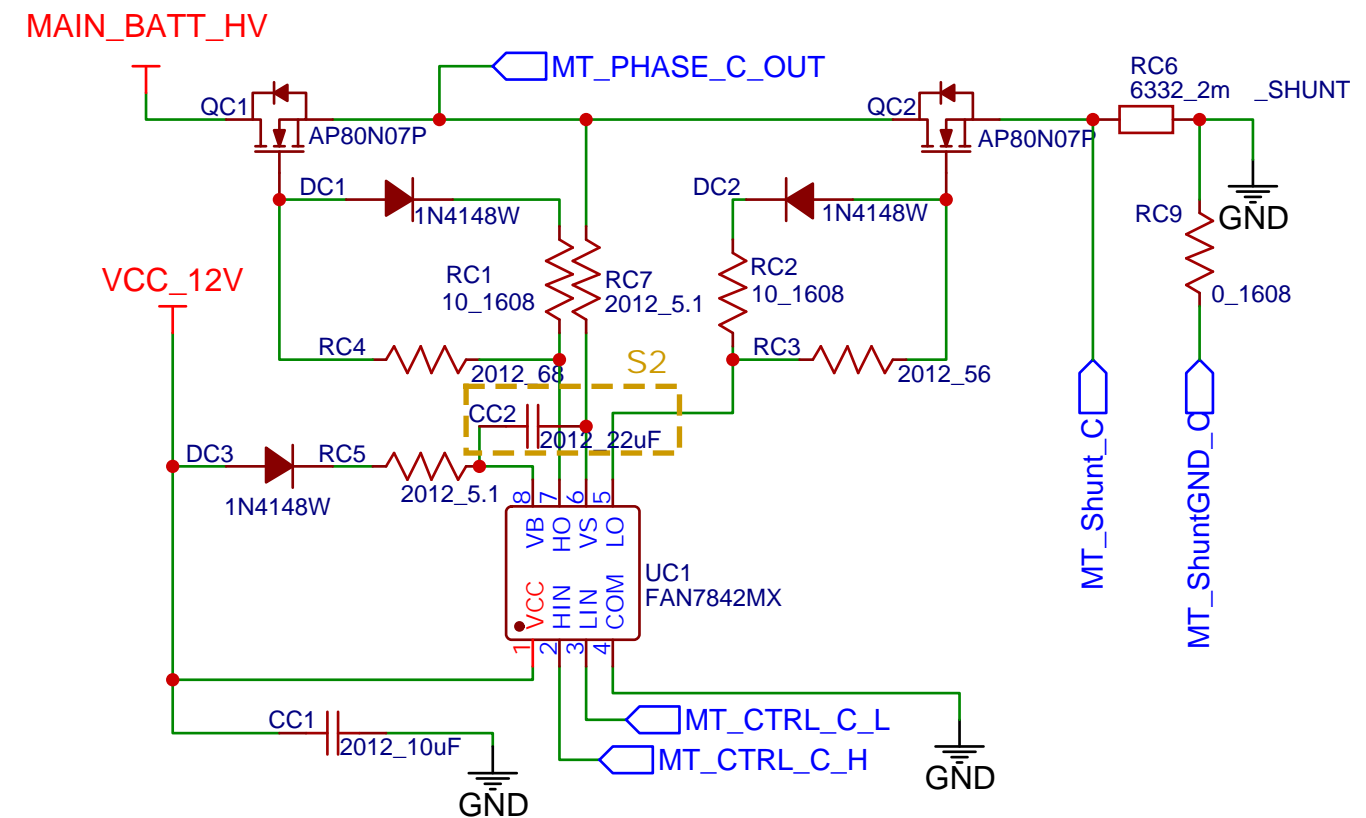
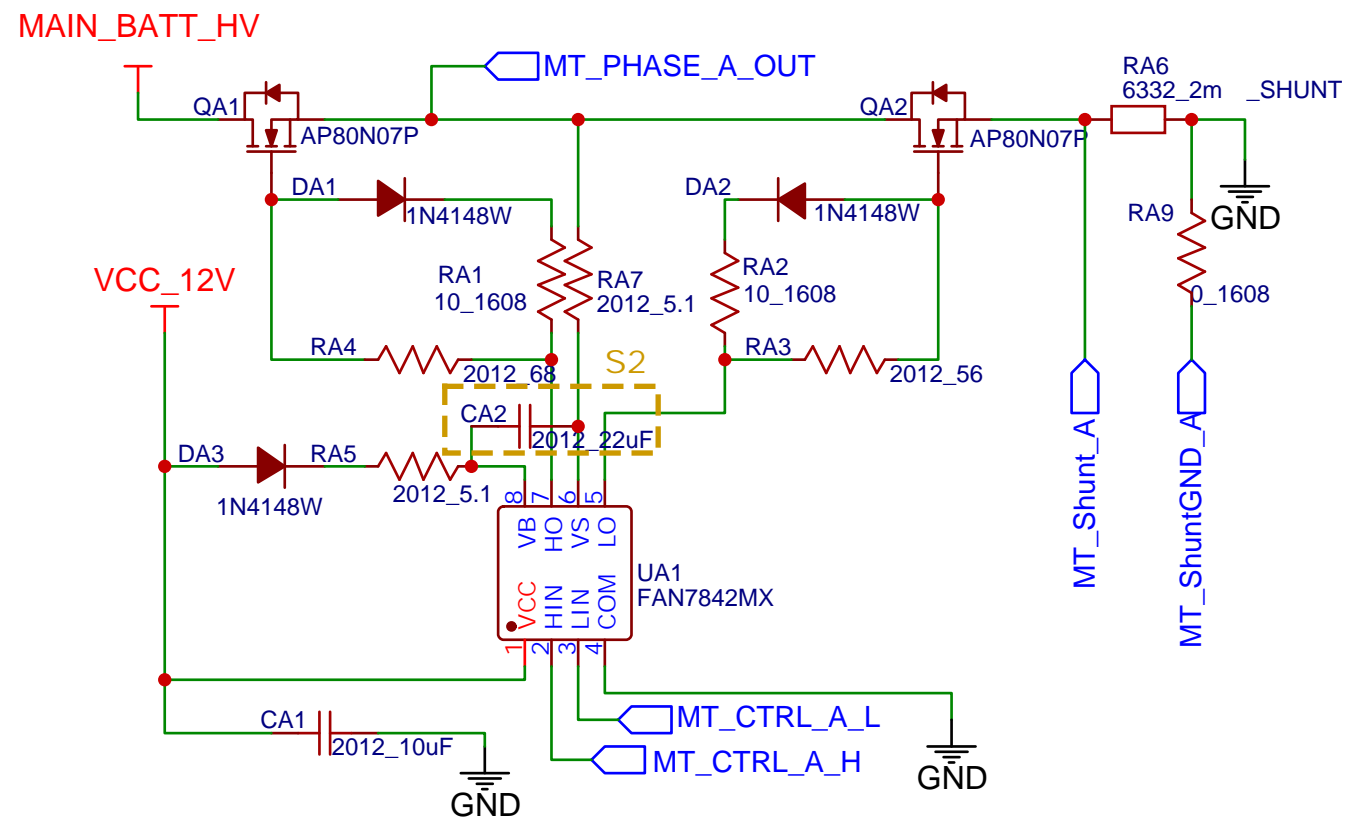
HIGH VOLTAGE


L1 Inductor Size : IND-SMD_L7.1-W6.6(1.5A 68uH)



EFGU2401

TITLE: Power(HV)		REV: ES1
IMH Networks EF series		Sheet: 2/4
Company: IMH Networks		Date: 2023-12-04
Date: 2023-12-04		Drawn By: GhostUser#2863



TITLE: Motor / Power IN		REV: ES1
	Company: IMH Networks	Sheet: 4/4
	Date: 2023-12-04	Drawn By: GhostUser#2863

1	2	3	4	5
<div>M365 V2 ChangeLog :</div> <div>Bug</div> <div>1) (S1) 커넥터 방향 Pinout 반대(J11, J12, J13H)</div> <div>2) (S2) 모터 드라이버 22uF Capasitor 누락</div> <div>3) (S3) TOKMAS SY8502FCC 부품 교체</div> <div>-> TI LM5164 부품으로 교체</div> <div>-> Peripheral 회로 수정 필요(Ti사 레퍼런스 따라서 그대로 진행)</div> <div>-> 4번 핀 RON에 저항 추가</div> <div>-> Input Bypass Cap 추가(MLCC)</div> <div>-> 소자 변경 대비를 위해 6번 핀 PGOOD위치에 Diode실장할 FootPrint&TP 설치.</div> <div>기능 - 개량개선</div> <div>1) (S4) 3.3V, 5V 파워레일에 Power ON LED설치</div> <div>2) (S5) 각종 외부 출력포트(TailLight LED)에도 LED설치</div> <div>3) (S6) 프로그래밍 단자의 피치 변경(1.0mm로)</div> <div>4) (S7) 테스트포인트 마련(모터, Current Sense, Power Rail)</div> <div>5) (S8) SMD Fuse의 FootPrint 커우커(큰 휴즈 실장 필요)</div> <div>6) (S9) XT60단자 직하단 커패시터 사이즈 키우기</div> <div>7) C4H자리 아래로 조금 더 밀기(기계적 사이즈가 커질 것에 대비)</div>				

TITLE: Sheet_1		REV: 1.0
	Company: Your Company	Sheet: 1/1
	Date: 2024-01-22 Drawn By: wjdgowns77	

<< AEC-Q100 Supported Parts(IC) >>

U5
First Switching Power IC

Low Cost / Testing	AEC-Q100
LM5164 Series	LM5164-Q1 Series

U50
3.3V Logic LDO

Low Cost / Testing	AEC-Q100
TLV1117-33 (AMS/LM1117 3.3V)	NCV1117ST33T3G

U60
5V Peripheral LDO

Low Cost / Testing	AEC-Q100
TLV1117-50 (AMS/LM1117 5.0V)	NCV1117ST33T3G

UA1 / UB1 / UC1
Mosfet Gate Driver

Low Cost / Testing	AEC-Q100
FAN7842	LM5109B-Q1 Untested
- 40 to 125 ° C	- 40 to 125 ° C

U10
Motor Control Processor

Low Cost / Testing	AEC-Q100
STM32F103C8T6	STM32F103C8T7 NON-Q100
- 40 to 85 ° C	- 40 to 105 ° C