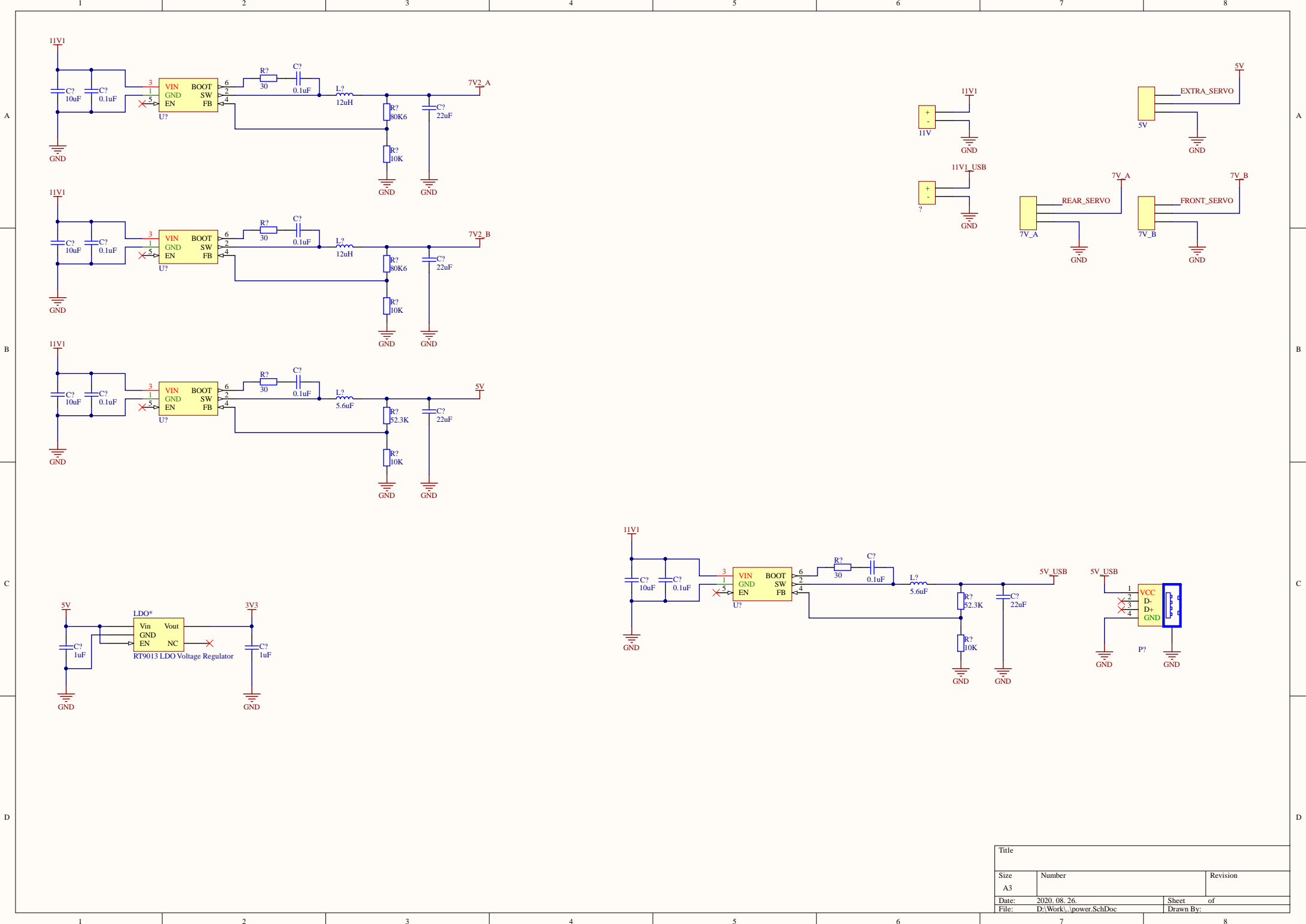


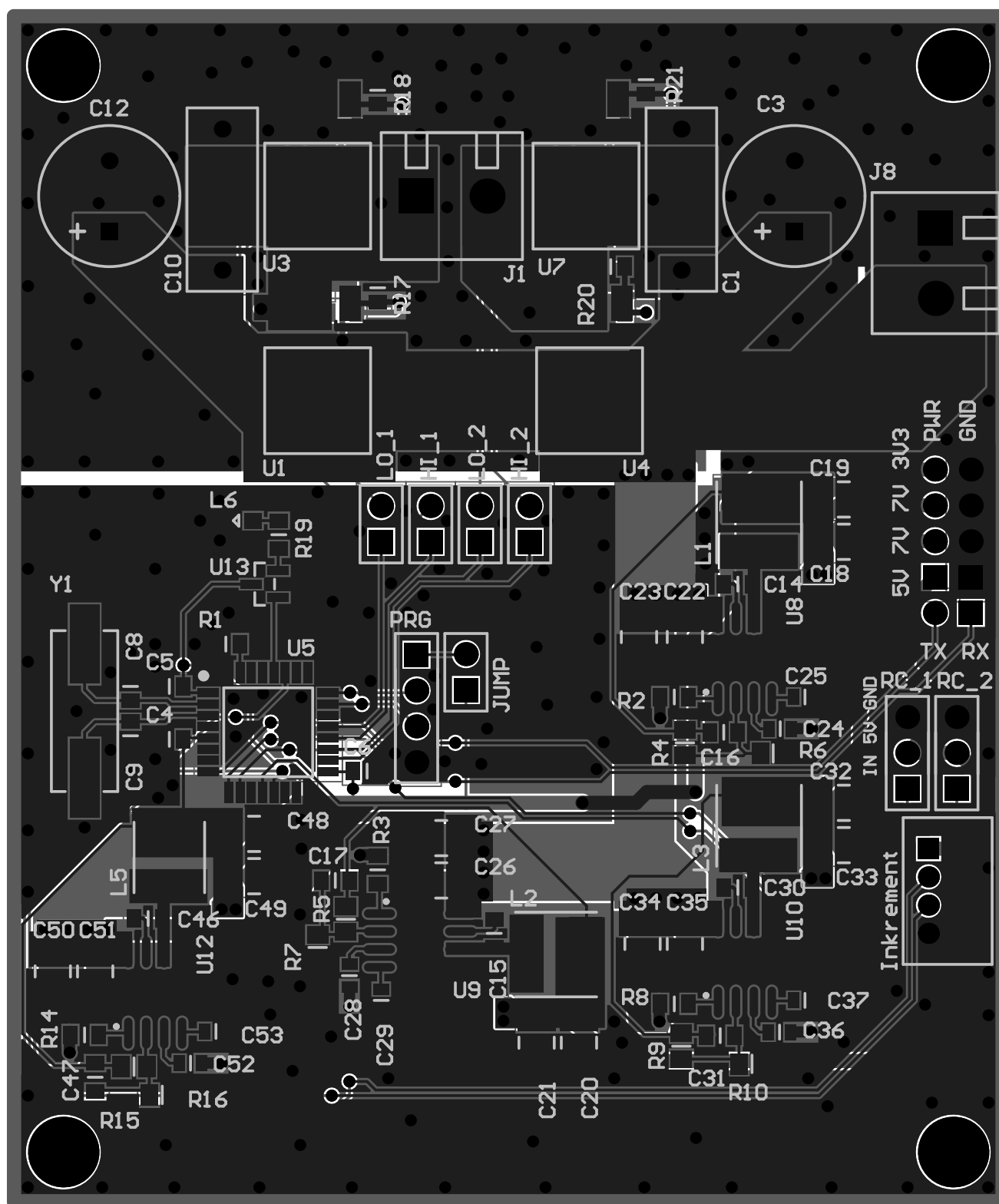
I1 I2

I3 I4

Title		
Size	Number	Revision
A4		
Date:	2020. 08. 26.	Sheet of
File:	D:\Work\...\main.SchDoc	Drawn By:



Title			
Size	Number		Revision
A3			
Date:	2020.08.26.		Sheet of
File:	D:\Work\...power.SchDoc		Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
T_PLUG	LiPo battery T plug connector	7, 11V		T_PLUG	2
64-pin STM32F4 chip with symbol for Foxcar Control Board v1.		1	LOFP64	STM32F4R_64PIN_FOXC AR	1
3-Pin HEADER		5V, 7V, A, 7V, B, CH1, CH2, CH3, CH4	3-Pin HEADER	3-Pin HEADER	7
R60DF4220506AJ	General Purpose Metallized Polyester Film Capacitor, 2.2 uF, 40 VAC, 63 VDC, 5 %	C1, C10	10mm lead spacing CAP	R60DF4220506AJ	2
100nF	Capacitor	C2, C5, C6, C8, C11, C12, C13	FP_0805_CAP_085	CAP 100nF	7
VJ0805Y104JXATW1BC	SMD Multilayer Ceramic Capacitor, 0805 [2012 Metric], 0.1 uF, 50 V, ± 5%, X7R, VJ Series	C2, C11	0805	VJ0805Y104JXATW1BC	2
EEU-FR1V471	Aluminum Electrolytic Capacitors, 470uF, Low ESR	C3, C12	5mm lead spacing ELCAP	EEU-FR1V471	2
VJ0805Y105KXQTW1BC	SMD Multilayer Ceramic Capacitor, 0805 [2012 Metric], 1 uF, 10 V, ± 10%, X7R, VJ Series	C7, C13, C?	0805	VJ0805Y105KXQTW1BC	4
C0805C104M5RACTU	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 0.1uF X7R 0805 20%	C?	0805	C0805C104M5RACTU	8
GRM21BR61E106MA73L	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 10uF 25volts X5R 20%	C?	0805	GRM21BR61E106MA73L	4
TMK325B7226KMHP	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1210 25V 22uF 10% X7R AEC-Q200	C?	1210	TMK325B7226KMHP	4
22pF	Capacitor	C_quartz1, C_quartz2	FP_0805_CAP_085	CAP 22pF	2
CAN transceiver	CAN transceiver	CAN1	SOIC-8	SN65HVD230	1
Connector	4pin Connector	CAN, SWD	FP_CONN4_TUSKE_254 MM	Connector_4pin	2
2-Pin Header	TUSKESOR 2 P SMD SPHSS220-B02-4/3 (T-T) 2mm PIN 0.5x0.5 TORDELHEITO [43-10-37] [NoValue]	CH1, CH1N, CH2, CH2N, UART	2-Pin Header	2-Pin Header	5
SS32A	3A 40V DO-214AC SCHLRECT. SS34A (YET) SMA (SK34A-SX34) [83-02-56]	D1, D2	DO-214AC(SMA)	SS32A	2
M3 screw drillhole	5mm diameter via with 3mm hole	I1, I2, I3, I4	3mm diameter drill	M3 screw drillhole	4
43-17-42	TAPCSATL 2.00mm 4P APA 90° NCW200S-04R (G-S) FORRL [43-17-42]	Inkrement	43-17-42	43-17-42	1
1935776	PCB terminal block, nominal current: 32 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 2	J1	PT 2.5/ 2-5,0-H	1935776	1
SDR1307-5R6ML	Fixed Inductors 5.6uH 20% SMD 1307	L?	SDR1307	SDR1307-5R6ML	2
SDR1307-120ML	Fixed Inductors 12uH 20% SMD 1307	L?	SDR1307	SDR1307-120ML	2
RT9013 LDO Voltage Regulator	LDO Voltage Regulator	LDO*	RT9013_SOT23	RT9013	1
LED Red	Red LED	LED?	FP_0805_LED_RED	LED Red	1
MC32593	USB Connector, USB Type-A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle	P?	MC32593	MC32593	1
47K	Resistor	R4	FP_0805_RES	RES 47K	1
10K	Resistor	R17, R18, R20, R21, R22, R23, R24, R25, R_boot	FP_0805_RES	RES 10K	9
CR0805-FX-20R0ELF	Thick Film Resistors - SMD 20ohm 1%	R?	0805	CR0805-FX-20R0ELF	2
CRCW060310K0FKEA	Thick Film Resistors - SMD 1/10watt 10Kohms 1%	R?	0603_RES	CRCW060310K0FKEA	4
CRCW060352K3FKEA	Thick Film Resistors - SMD 1/10watt 52.3Kohms 1%	R?	0603_RES	CRCW060352K3FKEA	2
CRCW060380K6FKEA	Thick Film Resistors - SMD 1/10watt 80.6Kohms 1%	R?	0603_RES	CRCW060380K6FKEA	2
RC0603FR-0730RL	Thick Film Resistors - SMD 30 OHM 1%	R?	0603_RES	RC0603FR-0730RL	4
1K	Resistor	R_led?	FP_0805_RES	RES 1K	1
120R	Resistor	Rterm	FP_0805_RES	RES 120R	1
IRLR8743TRLPBF	HEXFET 2Power MOSFET, Vdss=30V, Rdson=3.1mOhm, Og=39nC, Id=160A	U1, U3, U4, U7	TO-252 (DPAK)	IRLR8743TRLPBF	4
IRS2186STRPBF	High and Low Side Driver	U2, U6	8-Pin SOIC	IRS2186STRPBF	2
TPS56339	4.5-V to 24-V Input, 3-A Output Synchronous Buck Converter	U?	SOT-23-Thin-6	TPS56339	4
20MHz	Quarz Crystal	X1	FP_CRYSTAL_HC49_SMD	Crystal	1