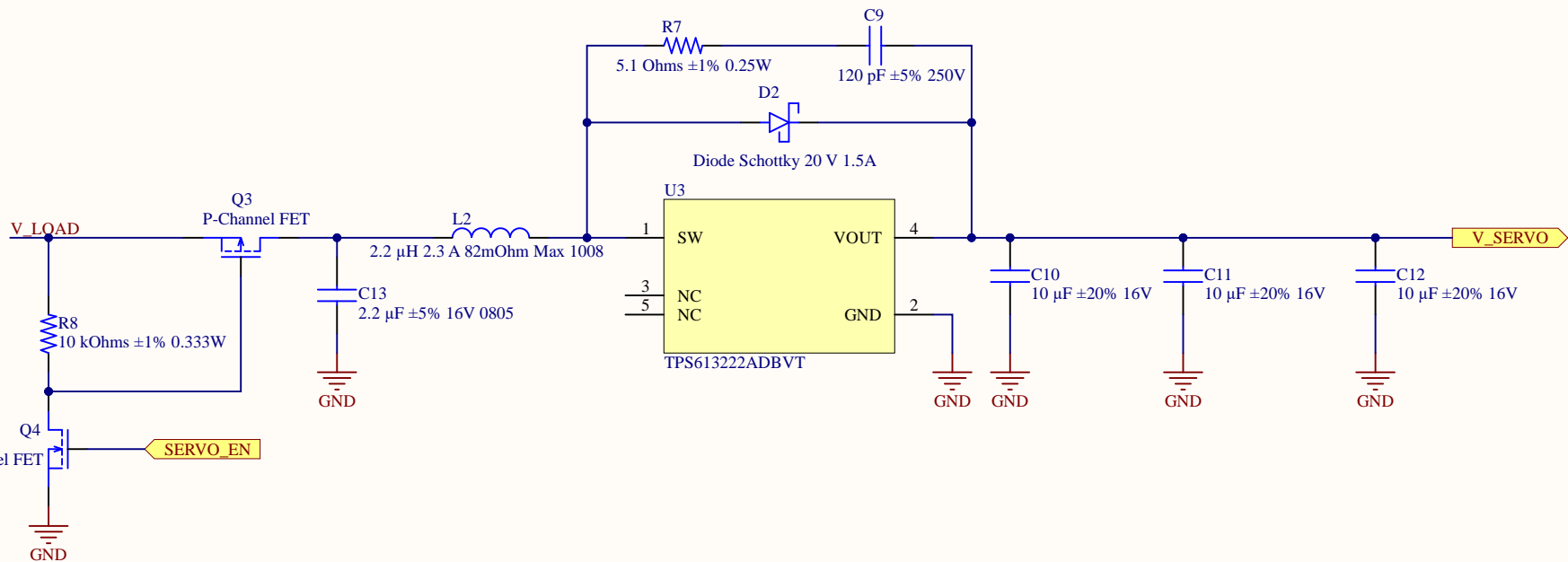
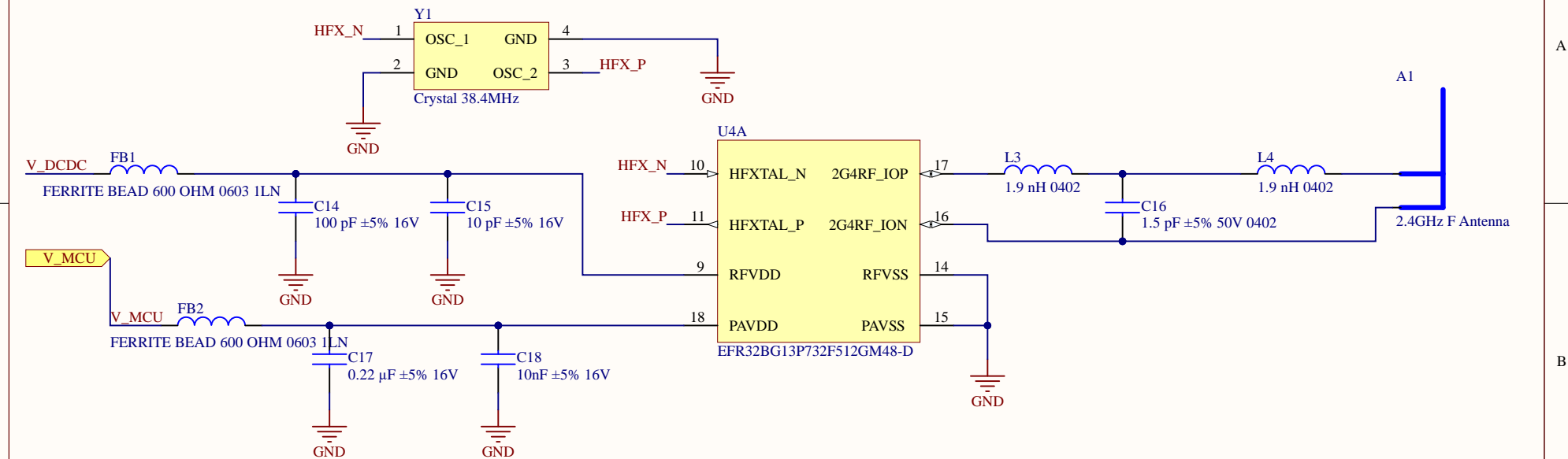


Buck-Boost

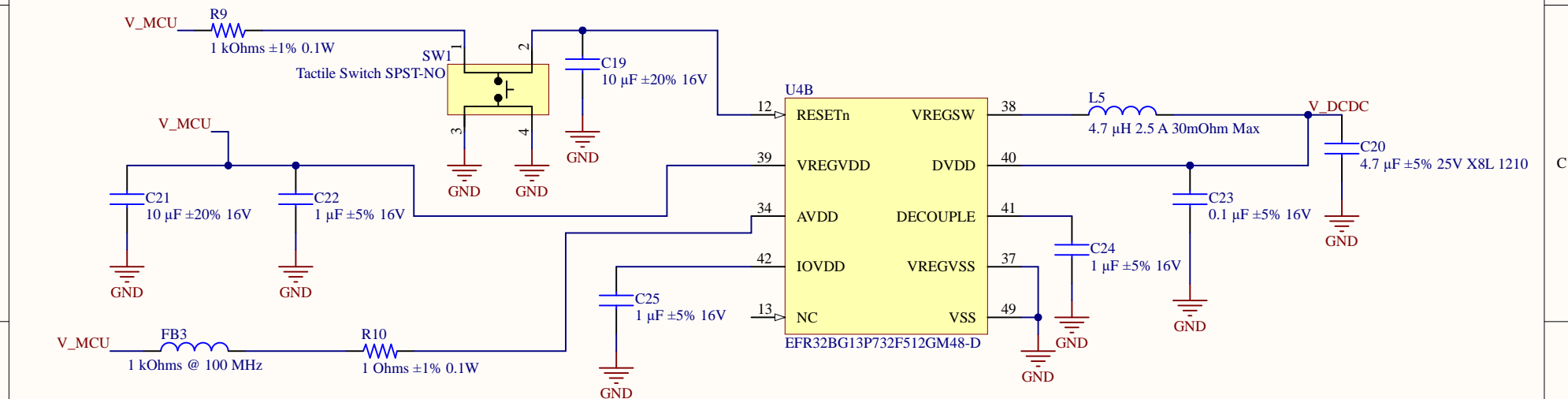


Boost

Title		
Power Circuits		
Size	Number	Revision
A		
Date:	2/26/2022	Sheet of
File:	D:\Documents\...\Power_Circuit_Schematic	By:



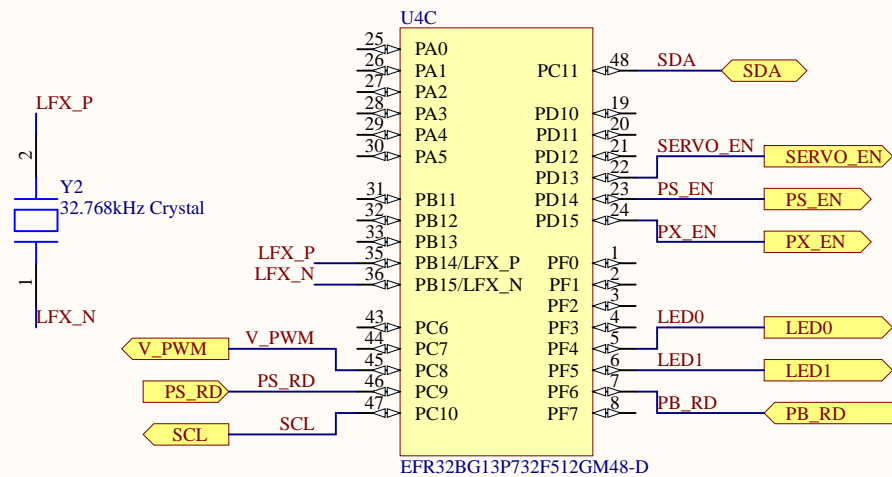
Radio and Antenna



Power and Decoupling

Title		
Blue Gecko Power and Radio		
Size	Number	Revision
A		
Date:	2/26/2022	Sheet of
File:	D:\Documents\...\BG_PWR_Radio_Schema.Dr.SchDoc	

Blue Gecko I/O



Title		
Blue Gecko I/O		
Size	Number	Revision
A		
Date:	2/26/2022	Sheet of
File:	D:\Documents\...\BG_IO_Schematic.SchDoc	
Drawn By:		

Comment	Description	Designator	Package	Ref	Quantity
0 RFLY Antenna	0 RFLY Antenna	01	0101	0101	1
10uf ±5% 16V	Cap Ceramic 10uF 16V X7R 5% Radial 1210	C1, C18	CAP060309W	0360C105J48AC7U	2
10 uf ±20% 16V	0603 10 uf 16 V X7R Tolerance 480 Surface Mount Multilayer Ceramic Capacitor	C2, C3, C8, C16, C17, C19, C21, C26, C28	CAP060309W-M	060310C08C10M8E1-0	10
1 uf ±5% 16V	Cap Ceramic 1uF 16V X7R 5% Radial 1210	C4, C22, C24, C25	CAP060309W	0360C105J48AC7B07	4
17 pf ±5% 16V	Cap Ceramic 17pF 16V X7R 5% Radial 1210	C5	CAP060309W	0360C105J48AC7B07	1
22 pf ±5% 16V 120V	0603 22 pF ±5% Tolerance 480 Multilayer Ceramic Capacitor	C6	CAP060309W	060310C08C10M8E1-0	1
220 pf ±5% 16V	Cap Cer 220PF 16V X7R 5% Radial 1210	C7	CAP060309W	0360C105J48AC7B07	1
220 pf ±5% 250V	Cap Ceramic 220PF 250V X7R 5% Radial 1210	C9	CAP060309W	0360C105J48AC7B07	1
2.2 uf ±5% 16V 0805	0805 2.2uF ±5% Tolerance 480	C10	CAP060309W	0360C105J48AC7B07	1
100 pf ±5% 16V	Cap Ceramic 100pF 16V X7R 5% Radial 1210	C14	CAP060309W	0360C105J48AC7B07	1
10 pf ±5% 16V	Cap Ceramic 10pF 16V X7R 5% Radial 1210	C15	CAP060309W	0360C105J48AC7B07	1
1.5 pf ±5% 50V 0402	Cap Ceramic 1.5pF 50V X7R 5% Radial 0402	C16	CAP060309W	0360C105J48AC7B07	1
0.22 uf ±5% 16V	0603 0.22 uF ±5% Tolerance 480 Multilayer Ceramic Capacitor	C17	CAP060309W-Y	0360C105J48AC7B07	1
2.7 pf ±5% 250V 0810	0810 2.7pF ±5% Tolerance 480 Multilayer Ceramic Capacitor	C20	CAP060309W	0360C105J48AC7B07	1
0.1 uf ±5% 16V	Cap Cer 0.1uF 16V X7R 5% Radial 1210	C23	CAP060309W	0360C105J48AC7B07	1
15 uf ±20% 16V 120V	Cap Ceramic 15uF 16V X7R 20% Radial 1206 100°C Punched Paper 505	C27	CAP_1206_100M	0360C105J48AC7B07	1
ESD-415 (MM4T5G)	ESD-415 (MM4T5G) Protection Diode for High-Speed Data Lines	D1, D2, D4, D5, D6, D7, D8, D9, D10	DFN06030000-2N	0360C105J48AC7B07	9
Shade Indicator 0V to 1.5A	Shade Indicator 0V to 1.5A	D1	DS04A2272C2N	013-03-0407	1
PERITE BEAD 400 0.5MM 0.5mm	PERITE BEAD 400 0.5MM 0.5mm	F01, F02	BLM18AG070N10	BLM18AG070N10	2
1 kOhms 0.1 100 (M40)	1 kOhms 0.1 100 (M40)	F03	ND060309W	7407066	1
020 M40C0 B REC2P	020 M40C0 B REC2P	F04	MC0100B_04M40C0	0110104-000107	1
0.1" Header	0.1" Header	H1	PH_0402_040200	PH04020000-0C	1
0.1" LED	0.1" LED	H1	LED_010004H000	00000	1
CONN HEADER W/ST 2.54mm	CONN HEADER W/ST 2.54mm	J1, J2	GAH1C_750-103-14-0.5	000-103-14-0.5	2
4.7 uf 2.5 A 20mOhm Max	4.7 uf 2.5 A 20mOhm Max	L1, L5	NDP022240W	00047204720000	2
2.2 uf 2.3 A 0.0mOhm Max 1000	2.2 uf 2.3 A 0.0mOhm Max 1000	L2	ND0100010N	04720012F-2000-P2	1
1.9 mH 0402	1.9 mH 0402	L3, L4	ND060309W	04020100010F	2
0.01 0402	0.01 0402	L5, L6	LED_0402_040200	04020100010F	2
0-Channel FEET	0-Channel FEET	O1, O2, O3, O4	00100000115-00	00010	4
0-Channel FEET	0-Channel FEET	O4, O6	00100000115-00	00010	2
0.1kOhms ±1% 0.1W	0.1kOhms ±1% 0.1W	R1, R2, R14, R15	RES060309W-1	0360C105J48AC7B07	5
0.4kOhms ±1% 0.25W	0.4kOhms ±1% 0.25W	R3	RES060309W	0360C105J48AC7B07	1
1kOhms ±1% 0.25W	1kOhms ±1% 0.25W	R4	RES060309W-00	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R5	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R6	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R7	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R8, R12, R13, R14, R15	RES060309W	0360C105J48AC7B07	5
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R9, R17	RES060309W-2	0360C105J48AC7B07	2
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R10	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R11	RES060309W-2	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R12, R13, R14, R15	RES060309W	0360C105J48AC7B07	5
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R16, R17	RES060309W-2	0360C105J48AC7B07	2
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R18	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R19	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R20	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R23	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R33	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R34	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R36	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R38	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R39	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R55	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R62	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R63	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R64	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R77	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R84	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R87	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R91	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R92	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R93	RES060309W	0360C105J48AC7B07	1
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0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R105	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.25W	0.1kOhms ±1% 0.25W	R106	RES060309W	0360C105J48AC7B07	1
0.1kOhms ±1% 0.					