PROJECT	11494 - (SPARROW ESSENTIALS BOARD)				
REVISION	2				
SCHEMATIC	20211494_SPARROW-ESSENTIALS-BOARD_V2				
DATA	25/10/2021				

Blues Inc

Ната Отган	Defenses.	Doub	AADNI	840812	AADNI2	DADNIA.	Description	T	T	Darkers
Item Quan		Part	MPN	MPN2	MPN3	MPN4	Description ANTENNA CHIP LTE/GNSS/BT D=12X3X2.4	Temperature		Package
1	1 ANT1	NN02-224	NN02-224				NN02-224 IGNION SMT	-40°+125°	SMD	ANT-NN02-224
2	1 BAT2	3034	3034				BATTERY HOLDER 3034 KEYSTONE SMT C.S. SPARROW-CORE-BOARD V2		SMD	BATHLD-3034-2032
3	1 CS1	CS V2 4L 35um					(82X35.62)mm 4L/SO(BLACK)/SR ENIG TG150 sp=1.6mm Cu=35um	TG150		
4	1 C1	22u/6.3V/X5R	CC0603MRX5R5BB226				CHIP CAP.CER. 22uF 6V3 20% X5R 0402	-55°+85°	SMD	CS-C-0402
5	2 C2,C5 C3,C6,C7,C11,C13,C14,C19,C22,C23,	1u/16V-X5R	EMK105BJ105MVHF				CHIP CAP.CER. 1uF 16V 10% X5R 0402		SMD	CS-C-0402
6	15 C25,C28,C29,C32,C40,C53	100n/16V	CC0402KRX7R7BB104				CHIP CAP.CER. 100nF 16V 10% X7R 0402		SMD	CS-C-0402
7	1 C4	10u/6.3V-X5R	GRM155R60J106ME44D				CHIP CAP.CER. 10uF 6.3V 20% X5R 0402	-55°+85°	SMD	CS-C-0402
8	3 C10,C12,C20	4.7u/6.3V-X5R	JMK105BBJ475MV-F				CHIP CAP CER. 4.7uF 6.3V 20% X5R 0402	-55°+125°	SMD SMD	CS-C-0402
10	2 C15,C16 1 C17	4p/50V-C0G 10p/50V-NP0	0402N4R0C500CT CC0402JRNPO9BN100				CHIP CAP.CER. 4pF 50V ±0.25pF C0G 0402 CHIP CAP.CER. 10pF 50V 5% 0402	-55"+125"	SMD	CS-C-0402 CS-C-0402
11	1 C18	3.6p/50V-C0G	500R07S3R6BV4T				CHIP CAP.CER. 3.0pr 50V ±0.1pr CUG 040Z	-55°+125°	SMD	CS-C-0402
12	1 C24	68p/50V-C0G	CC0402JRNPO9BN680				CHIP CAP.CER. 68pF 50V 5% C0G 0402		SMD	CS-C-0402
13	7 C26,C30,C31,C37,C39,C41,C42	33p/50V-C0G	CC0402JRNPO9BN330				CHIP CAP CER. 33pF 50V 5% COG 0402		SMD SMD	CS-C-0402
15	1 C27 1 C33	470n/10V-X5R 47n/25V	CC0402KRX5R6BB474 CC0402KRX7R8BB473				CHIP CAP.CER. 470nF 10V 10% X5R 0402 CHIP CAP.CER. 47nF 25V 10% X7R 0402		SMD	CS-C-0402 CS-C-0402
16	1 C34	47p/50V-C0G	CC0402JRNPO9BN470				CHIP CAP.CER. 47pF 50V 5% C0G 0402		SMD	CS-C-0402
17	3 C35,C36,C47	2.7p/50V-C0G	0402N2R7C500CT				CHIP CAP.CER. 2.7pF 50V ±0.25pF C0G 0402	-55°+125°	SMD	CS-C-0402
18	1 C38	2.4p/50V-C0G	04025U2R4BAT2A				CMT	-55°+125°	SMD	CS-C-0402
20	1 C43 1 C44	6.8p/50V-C0G 5.6p/50V-C0G	04025A6R8DAT4A 04025A5R6JAT2A				CHIP CAP.CER. 6.8pF 50V ±0.5pF C0G 0402 CHIP CAP.CER. 5.6pF 50V 5% C0G 0402	-55°+125° -55°+125°	SMD SMD	CS-C-0402 CS-C-0402
21	1 C45	3.9p/50V-C0G	0402N3R9C500CT				CHIP CAP.CER. 3.9pF 50V ±0.25pF C0G 0402	-55°+125°	SMD	CS-C-0402
22	1 C46	3.3p/50V-C0G	04025A3R3JAT2A				CHIP CAP.CER. 3.3pF 50V 5% C0G 0402	-55°+125°	SMD	CS-C-0402
23	1 C48	1.3p/50V-C0G	500R07S1R3BV4T				CHIP CAP CER. 1.3pr 50V ±0.1pr CUG 0402	-55°+125°	SMD	CS-C-0402
24	3 C50,C51,C52	1n/50V	C0402C102K5RECAUTO				CHIP CAP.CER. 1nF 50V 10% X7R 0402 DIP SWITCH 4P/D NERO MCDHN-04F-V		SMD	CS-C-0402
25	1 DSW1	DIP-SW-MCDHN-04F-T-V	MCDHN-04F-V				MULTICOMP SMT		SMD	DSS-4-0127-MCDHN
26	2 J1,J2	00718	00718				STRIP 12P F/D P=2.54 00718 UCON	-40°+105°	THT	J-12-0254-FDT-H0508_EDGE
27	1 J3	B2B-PH-SM4-TB	B2B-PH-SM4-TBT(LF)(SN)				CONN. PH 2P M/D P=2 B2B-PH-SM4- TBT(LF)(SN) JST SMT	-25°+85°	SMD	J-2-0200-MDS-B2B-PH-SM4
28	1 J4	BM04B-SRSS-TBT	BM04B-SRSS-TBT(LF)(SN)				CONN. SH 4P M/D P=1 BM04B-SRSS- TBT(LF)(SN) JST SMT	-25°+85°	SMD	J-4-0100-MDS-SH
29	1 J6	21691		SH-107-01-F-DV-K-P	BH3M56-14GBCNR-4-00		CONN. UNSHROUDED HEADER HDR 14 POS P=1.27 21691 UCON SMT	-55°+125°	SMD	J-7X2-0127-MDS-21691
30	1 LD1 1 LD2	GENERIC GENERICO	LS Q976-NR-1 VLMG1300-GS08				RED LED DIODE 0603 SMT GREEN LED DIODE 0603 SMT		SMD SMD	LD-0603 LD-0603
32	1 LD3	LBQ39E	LBQ39E-N1OO-35-1				BLUE LED DIODE LBQ39E OSRAM 0603 SMT		SMD	LD-0603
33	1 L1	1285AS-H-2R2M=P2	1285AS-H-2R2M=P2				INDUCTOR 2.2uH 1.5A 20% 0806 1285AS-H- 2R2M=P2 MURATA SMT	-40°+85°	SMD	LS-0806
34	1 L2	BLM18AG102SN1	BLM18AG102SN1D				FERRITE BEAD 1K 0.4A 25% 0603 BLM18AG102SN1D MURATA SMT INDUCTOR 15uH 0.25A 20% 0805		SMD	LS-0603
35	1 L3	LQM21DN150M70L	LQM21DN150M70L				LQM21DN150M70L COILCRAFT SMT	-55°+125°	SMD	LS-0805
36	4 L4,R36,R37,R38	0R	CRCW04020000Z0TDBC				CHIP RES. 0R 0402 1/16W 1%		SMD	RS-0402
37	1 L5	MLG1005S11NJT000	MLG1005S11NJT000				INDUCTOR 11nH 0.4A ±5% 0402 MLG1005S11NJT000 TDK SMT INDUCTOR 3.3nH 0.3A ±0.3nH 0402 L-	-55°+125°	SMD	LS-0402
38	2 L6,L12	L-07C3N3SV6T	L-07C3N3SV6T				07C3N3SV6T JOHANSON TECHNOLOGY SMT INDUCTOR 3.6nH 0.3A ±0.3nH 0402 PE-	-40°+100°	SMD	LS-0402
39	1 L7	PE-0402CL3N6STT	PE-0402CL3N6STT				0402CL3N6STT PULSE SMT	-55°+125°	SMD	LS-0402
40	2 L8,L11	LQW15AN47NJ00D	LQW15AN47NJ00D				INDUCTOR 47nH 0.21A 5% A FILO 0402 SMT INDUCTOR 3nH 0.8A 1% 0402	-55°+125°	SMD	LS-0402
41	1 L9	LQG15HS3N0S02D	LQG15HS3N0S02D				LQG15HS3N0S02D MURATA SMT INDUCTOR 8.7nH 0.55A ±5% 0402	-55°+125°	SMD	LS-0402
42	1 L10 1 L13	LQG15WZ8N7J02D L-07C6N8JV6T	L-07C6N8JV6T				LQG15WZ8N7J02D MURATA SMT INDUCTOR 6.8nH 0.25A 5% 0402 L-07C6N8JV6T	-55°+125° -40°+100°	SMD	LS-0402 LS-0402
1			+				JOHANSON TECHNOLOGY SMT INDUCTOR 12nH 1.5A ±2% 0603			
44	1 L14	LQW18AN12NG80	LQW18AN12NG80				LQW18AN12NG80 MURATA SMT INDUCTOR 4.5nH 1.45A ±2% 0402	-55°+125°	SMD	FRACTUS-0404
45 46	1 L15 3 PB1,PB2,PB3	LQW15AN4N5G80D PB-SKRPADE010	LQW15AN4N5G80D SKRPADE010				LQW15AN4N5G80D MURATA SMT PUSH BUTTON 16V 0.5A 4.2X3.2 SPST	-55°+125° -20°+70°	SMD	FRACTUS-0404 PB-SKRPA
47	5 R1,R2,R3,R4,R18	49.9R	CRCW040249R9FKED				SKRPADE010 ALPS SMT CHIP RES. 49R9 0402 1/16W 1% 100PPM/°C	-55°+155°	SMD	RS-0402
48	2 R5,R6	10M/5%	SG73S1ETTP106J				CHIP RES. 10M 0402 1/16W 1% 100PPM/ C	-55°+125°	SMD	RS-0402
49	2 R9,R13	10k	RC0402FR-0710KL				CHIP RES. 10K 0402 1/16W 1%	-55°+125°	SMD	RS-0402
50	3 R10,R11,R12	49.9R	CRCW040249R9FKED				CHIP RES. 49R9 0402 1/16W 1% 100PPM/°C	-55°+155°	SMD	RS-0402
51 52	2 R14,R17 7 R15.R16.R20,R21,R22,R24,R26	200R 10k	RC0402FR-0722RL RC0402FR-0710KL				CHIP RES. 200R 0402 1/16W 1% 100PPM/°C CHIP RES. 10K 0402 1/16W 1%	-55°+125°	SMD SMD	RS-0402 RS-0402
53	1 R19	22R	RC0402FR-0710RL RC0402FR-07200RL				CHIP RES. 22R 0402 1/16W 1%	50 120	SMD	RS-0402
54	2 R23,R25	1k	RC0402FR-071KL				CHIP RES. 1K 0402 1/16W 1%	-55°+125°	SMD	RS-0402
55	3 R31,R32,R34	100R	RC0402FR-07100RL				CHIP RES. 100R 0402 1/16W 1%		SMD	RS-0402
56	1 R33	0R	CRCW04020000Z0TDBC				CHIP RES. 0R 0402 1/16W 1% DIODE TVS TRANSIL UNIDIR. 158W 18.6V		SMD	FRACTUS-0404
57	2 TVS1,TVS2	ESD5Z5.0T1G	ESD5Z5.0T1G				ESD5Z5.0T1G SOD-523 SMT	-55°+150°	SMD	SOD523
58 59	1 U1 1 U3	RP605Z333B-E2-F STM32WL55CCU7	RP605Z333B-E2-F STM32WL55CCU7 STM	M32WLE5CCU6	STM32WLE5CCU7	STM32WL55CCU6	I.C. RP605Z333B-E2-F RICOH WLCSP20 SMT I.C. STM32WL55CCU7 ST UFQFPN48	-40°+85° -40°+105°	SMD SMD	XFBGA20 UFQFPN48-EXP-0700X0700
60	1 U4	TS3A5223RSWR		AS2750MUTAG	STIVISZVV LESCOU/	STIVIOZ VV LOOCCUD	I.C. TS3A5223RSWR UQFN-10 TI SMT	-40°+105°	SMD	UFQFN10-0180X0140
61	1 U6	BGS13S4N9E6327XTSA1	BGS13S4N9E6327XTSA1				I.C. BGS13S4N9E6327XTSA1 XFLGA9 INFINEON SMT	-40°+85°	SMD	XFLGA9
62	1 Y1	ABS06-107-32.768KHZ-T	ABS06-107-32.768KHZ-T				CRYSTAL 32.768KHz 4pF 20ppm D=2x1.2 ABS06- 107-32.768KHZ-T ABRACON SMT	-40°+85°	SMD	Y-ABS06
63	1 Y2	TYETBCSANF-32.000000	TYETBCSANF-32.000000				OSCILLATOR 32MHz 2.8V-3.3V 1ppm D=2.5x2 TYETBCSANF-32.000000 TAITIEN SMT	-20°+75°	SMD	Y-TYETBCSANF

1	1 ASS1	NU	TWF5-3-9W	PLASTIC ENCLOSURE 45,6x27,5x90 TWF5-3-9W TAKACHI	тнт	
2	4 ASS2,ASS3,ASS4,ASS5	NU		SCREW SELF TAPPING 2.3X6 INOX DIN 7985	THT	
3	4 ASS6,ASS7,ASS8,ASS9	NU		SCREW 2.6X12 INOX DIN 7985	THT	
3	1 ASS10	NU	MH3080-1	PIR LENS MH3080-1 MUHWA	тнт	
4	1 BAT1	NU	2468	BATTERY HOLDER 2468 KEYSTONE	THT	BATHLD-2468-NOMECC
5	3 C8,C9,C49	NU	CC0402KRX7R7BB104	CHIP CAP.CER. 100nF 16V 10% X7R 0402	SMD	CS-C-0402
6	2 C54,C55	NU	CC0402KRX7R7BB104	CHIP CAP.CER. 100nF 16V 10% X7R 0402	SMD	CS-C-0402
7	4 FID1,FID2,FID3,FID4	TPS		FIDUCIAL	SMD	FIDUCIAL
8	1 J5	NU	FTSH-105-01-F-DV-K-P-TR	CONN. UNSHROUDED HEADER HDR 10 POS P=1.27 FTSH-105-01-F-DV-K-P-TR SAMTEC -55°+125°	SMD	J-5X2-0127-MDS-FTSH105
9	1 LD4	NU	LS Q976-NR-1	RED LED DIODE 0603 SMT	SMD	LD-0603
10	1 LD5	NU	VLMG1300-GS08	GREEN LED DIODE 0603 SMT	SMD	LD-0603
11	1 LD6	NU	LBQ39E-N1OO-35-1	BLUE LED DIODE LBQ39E OSRAM 0603 SMT	SMD	LD-0603
12	1 OBJ1	NU	S02-30200250	RF SHIELD 30X20MM S02-30200250 HARWIN SMD	SMT	J-S02-30200250
13	4 OBJ2,OBJ3,OBJ4,OBJ5	NU	S1001-46R	SUPPORT RELECTION TARROVIN -25°+150°	SMT	J-S1001-46R
14	3 PB4,PB5,PB6	NU	SKRPADE010	PUSH BUTTON 16V 0.5A 4.2X3.2 SPST SKRPADE010 ALPS SMT -20°+70°	SMD	PB-SKRPA
15	2 R7,R8	NU	RC0402FR-074K7L	CHIP RES. 4K7 0402 1/16W 1%	SMD	RS-0402
16	4 R27,R28,R29,R30	NU	CRCW04020000Z0TDBC	CHIP RES. 0402	SMD	RS-0402
17	1 R35	NU	RC0402FR-072M2L	CHIP RES. 2M2 0402 1/16W 1% 100PPM/°C	SMD	RS-0402
18	1 U2	NU	BME280	I.C. BME280 BOSCH LGA8 SMT -40°+85°	SMD	IC-BME280
19	1 U5	NU	PYD 1598/7655	I.C. PYD 1598/7655 EXCELITAS TO-5 -40°+70°	THT	TO5-4
20	1 U7	NU	FXMAR2104UMX	I.C. FXMAR2104UMX ONSEMI UMLP-12 SMT -40°85°	SMD	UFQFN12-0180X0180