

Designator	Description	Value	Quantity	Supplier 1	Supplier Part Number 1
	2.4GHz Surface Mount Device (SMD) On Ground	10.00			FR05-S1-N-
ANT1	Antenna, 50 Ohms		1	RichardsonRFPD	0102B
31	nrf8001 chip balun Johanson CC253X Balun	+	1	Digikey Digikey	712-1574-1-ND 712-1536-1-ND
3C1	2-pin JST-PH 2mm Battery Connector	+	1	Sparkfun	PRT-08612
C1, C2, C7, C22,	2-piii 331-FH Ziliiii Battery Conflector		'	эрагкічн	FK1-00012
C24, C28, C36, C37	Ceramic capacitor, 1 uF, 0402 package	1 uF	8	Digi-Kev	445-5000-1-ND
3	Ceramic capacitor, 10 uF, 0402 package	10 uF	1	Digi-Key	445-8919-1-ND
C4, C5, C9, C10,	Ceramic capacitor, 10 dr, 0-02 package	10 01	· ·	Digi-key	443-0313-1-ND
C12, C13, C14,					
215, C16, C18, 219, C20, C21,					
32, C35, C38,					
240, C41, C42, 243, C44, C45,					
46, C47, C48	Ceramic capacitor, 0.1u, 0402 package	0.1 uF	25	Digi-Key	445-1265-1-ND
.6, C8	Ceramic capacitor, 47 pF, 0402 package	47 pF	2	Digi-Key	709-1121-1-ND
11	Ceramic capacitor, 10 uF, 0603 package	10 uF	1	Digi-Key	445-4112-1-ND
17, C26, C30	Ceramic capacitor, 1000 pF, 0402 package	1000 pF	3	Digi-Key	445-6846-1-ND
23, C25	13pf, 50V, 2%, c0G, NP0, 0402, ceramic	13 pF	2	Digikey	490-8184-1-ND
27, C29	15pF, 2%, NP0, 0402	15pF	2	Digikey	490-6201-1-ND
31	4.7 uF 10% 0402 6.3V X5R ceramic cap		1	Digikey	445-5947-1-ND
33	33nF 10% 0402 16V X7R ceramic cap		1	Digikey	1276-1177-1-NE
34	2.2nF 10% 50V X7R ceramic cap		1	Digikey	445-1257-1-ND
39	Tantalum capacitor, 4.7 uF, 0603 package	4.7 uF	1	Digi-Key	511-1496-1-ND
49	220pF 5% 50 V C0G NP0 0402 ceramic cap	220pF	1	Digikey	490-1293-1-ND
)1	Schottky diode 30 V 0.1 A 0603		1	Digi-Key	641-1282-1-ND
)2	LED, Green, 0402		1	Digi-Key	511-1592-1-ND
B1	Ferrite Bead, 150 mA, 0402 package			Digi-Key	587-1835-1-ND
1	CONN USB MICRO B RECPT SMT R/A		1	Digi-Key	609-4616-6-ND
1	15 nH, 5%, 460mOhm, 2.3Ghz, 0402 chip inductor	15nH	1	Digikey	587-1521-1-ND
2	10uH, 10%, 32MHz, 468 mOhm, 0603, chip inductor	10uH	1	Digikey	LBMF1608T100k
\d	P-CHANNEL ENHANCEMENT MODE MOSFET				DMG1013UW-
21	P-CHANNEL ENHANCEMENT MODE MOSFET		1	Digi-Key	7DICT-ND SI1300BDL-T1-
)2	MOSFET N-CH D-S 20V SC-70-3		1	Digi-Key	GE3DKR-ND
1, R3, R5	Chip resistor, 1M, 0402 package	1M	3	Digi-Key	541-1.00MLCT- ND
2, R4, R6, R21, 22, R23	Chip resistor, 100K, 0402 package	100K	6	Digi-Key	541-100KLCT-NE
-					541-1.24MLCT-
7, R14	Chip resistor, 1.24M, 0402 package	1.24M	2	Digi-Key	ND 541-37.4KLCT-
8, R12	Chip resistor, 37.4K, 0402 package	37.4K	2	Digi-Key	ND
9	Chip resistor, 27K, 0402 package	27K	1	Digi-Key	541-27.0KLCT- ND
10, R13		422K			541-422KLCT-NE
	Chip resistor, 422K, 0402 package			Digi-Key	
:11	Chip resistor, 270K, 0402 package	270K	1	Digi-Key	541-270KLCT-NE 541-10.0KLDKR-
15, R16	Chip resistor, 10K, 0402 package	10K	2	Digi-Key	ND
.17	56 kOhm, 1%, .0603 W, 0402	56 kOhm	1	Digikey	RHM56.0KCDC1 ND
					541-2.20LLCT-
118	2.2 Ohm, 1%, .063W, 0402	2.2 Ohm	1	Digikey	ND
119	22k 1% .063W 0402 resistor	22kOhm	1	Digikey	1276-4143-1-NE 541-1.00KLCT-
20	Chip resistor, 1K, 0402 package	1K	1	Digi-Key	541-1.00KLC1- ND
					ADP162AUJZ-3.
J1	IC REG LDO 3.3V 0.15A TSOT23-5	+	1	Digi-Key	R7CT-ND
12	IC VREF SERIES PREC SOT-23-3	1	1	Digi-Key	ISL60002DIH310 Z-TKCT-ND
13	IC OPAMP 400KHZ 2.7V ULT LP SC70	1		Digi-Key	576-2932-1-ND
14	Dual Ultra Low Power Op Amp in SOT23-8	1		Digi-Key	576-2934-1-ND
15	Ultra Low Power Dual Comparator			Digikey	497-14073-1-NE
		1			NC7S14P5XDKR
16	Single Inverter			Digikey	ND
17	IC ANALOG SWITCH SPDT 10XQFN		1	Digi-Key	568-5564-1-ND NI X2G14AMX11
18	IC INVERTER DUAL SCHMTRIG ULLGA6	1	1	Digi-Key	CGOSCT-ND
19	Temperature and Humidity Sensor			Digikey	336-2542-1-ND
111	Rf Switch			Digikey	1465-1373-1-NE
12	cc2538 MCU/802.15.4 radio		1		
13	64 Mbit SPI Serial Dual I/O Flash	1	1	Digi-Key	SST25VF064C-8 4I-Q2AE-CT-ND
14	nrf8001 Bluetooth SPI module	+		Digi-key Digikey	1490-1026-ND
	3 Dual-Input USB/AC Adapter 1-Cell Li+ Battery	+			MAX1555EZK+1
15	Chargers		1	Digi-Key	R-ND
116	FT232R USB UART		1	Digi-Key	768-1008-1-ND
JT1	Air Ultrasounic Ceramic Transducers		1	Digi-Key	ED90088-ND
1	32MHz, 10ppm, 10pF, 60 Ohm	32 MHz	1	Digikey	SER3800CT-ND
2	3.2x2.5mm 16MHz SMD crystal	16MHz	1	Digikey	SER3628CT-ND