

Item	Quantity	Reference	Part	Footprint
1	1	ANT. GPS	ANT	PA1575MZ50J4G-XX-16
2	1	ANT. GSM	ANT	
3	2		POGO PIN	
4	6	C1, C2, C3, C4, C26, C27, C5, C6, C7, C8, C9,	20pF	CC0402KRX7R8BN220
5	28	C10, C11, C12, C13, C15, C20, C21, C2	0. 1uF	CC0402KRX7R8BB104
6	1	C59	0. 1uF	
7	3	C14, C30, C38	4. 7uF	CL10F475ZBNC
8	3	C16, C66, C67	47pF	CC0402KRNPO8BN470
9	2	C19, C76	470uF	TAJD477M010RNJ
10	3	C24, C74, C75	22uF	TAJB226M010RNJ
11	1	C25	0. 01uF	CC0402KRX7R8BB103
12	1	C28	1uF	CL10F105ZBNC
13	1	C33	10uF	CC0805MKX7R7BB106
14	1	C64	0. 47uF	CC0402KRX7R8BB474
15	1	D12	Blue LED	0603
16	6	D1, D2, D3, D4, D5, D7	Red LED	0603
17	2	D9, D10	LL4148	
18	1	D11	BAT54SDW	
19	1	J6	CON6-0. 5	
20	1	J7	CON6-0. 5	
21	1	J4	CON3-1. 25	
22	1	J8	CON10-0. 5	
23	1	L2	RR2012 (0805) L000JT	
24	1	P1	SIM	WKSM009-1911
25	1	P2	MICRO-USB	UB007-24123A51
26	6	Q1, Q3, Q5, Q6, Q8	2N7002	
27	3	Q4, Q9, Q10	AP2305N	
28	14	R1, R4, R7, R8, R9, R10, R21, R24, R26, R51, R77, R79, R89, R111	4. 7K	AR0402JR-074K7
29	2	R5, R6	51K	AR0402JR-0751K
30	6	R11, R40, R45, R86, R87, R110	1M	AR0402JR-071M
31	6	R13, R18, R19, R20, R97, R112	22R	AR0402JR-0722R
32	22	R14, R15, R42, R43, R48, R52, R54, R60, R69, R72, R73, R76, R92, R93, R96, R103, R104, R105, R106, R107, R108, R109	10K	AR0402JR-0710K
33	6	R22, R28, R32, R78, R80, R90	47K	AR0402JR-074K7

34	4 R38, R39, R101, R102	0R	AR0402JR-070R
35	1 R55	1.18K+-1%	AR0402FR-071K18
36	1 R56	1.13K+-1%	AR0402FR-071K13
37	1 R57	46.4K+-1%	AR0402FR-0746K4
38	1 R58	1K	AR0402JR-071K
39	3 R68, R83, R84	100K	AR0402JR-07100K
40	2 R98, R99	0.02R+-1%	AR0805FR-130R02
41	1 SW1	SW1	2Pin Switch
43	1 U1	STM32L152RBT6	LQFP64
44	1 U2	MX25L1606EM2I-12G	S08W
46	1 U4	SP809EK-2-6	SOT32
47	1 U5	SIM900	
48	1 U6	NEO-6M	
49	1 U7	CH340T	SSOP20
50	1 U8	BQ24072RGTT	QFN16
51	1 U9	TLV70033DDCT	SOT23
52	1 U10	BQ27510DRZR-G3	QFN12
53	1 U12	ADXL345BCCZ	LGA14
54	1 Y1	MC146(32.768KHz)	SMD0715
55	1 Y2	8MHz	SMD5032
56	1 Y3	12MHz	SMD5032
57	1 U15	BM085	
58	1 U14	AM2321	
59	1 U11	ADT7420UCPZ-R2	QFN16
60	1 J1	CON10-0.5	
61	3 C48, C49, C50	0.1uF	CC0402KRX7R8BB104
62	2	TSL2561T	QFN6
63	2	FPC-LUX	Cable
64	1 U101	PNX4902	PBGA-273
65	1 U302	M36W0R6050U4ZS	M36W0R6050U4ZS
66	1 U102	RF7161DS	RF7161DS
67	1 U103	B9500	B9500
68	1 U104	SAFEA942MFL0F00	SAFEA942MFL0F00
69	1 U105	SAFEG96FA0F00	SAFEG96FA0F00
70	1 U107	26MHz (Crystal)	
71	1 U1001	UBX-G6010-ST	GPS
72	1 U1002	Crystal RD325	