LED1

J1

C35

U15

Y
X

U14

C41 C38

U13

C40

R22 R24 FB2

T6

T7

T5

R38

T4

5V2
G
5V1
G

T20

LED2

LED4

R14

R13

C27

C13

U3

T19

GND_15

VCC_IN

GND

VBAT

T11

4G Tracer
V1.0

U5

C22
U8
U9 C25 L2
L3 C23

C6

R1 Y2 C4

C5 Y1

Y1

C12
R65 Y3 C7
R14
R3 LED5

J2

U1

T10

Comment	Description	Designator	Footprint	LibRef	Quantity
MS621FE		BATT	MS621FE	SBatery	1
0.1uF/25V	Capacitor	C1, C3, C8, C9, C11, C12, C13, C15, C35, C37, C38, C41, C50	0402c	Cap	13
4.7uF/10V	Capacitor	C2	0402c	Cap	1
22pF	Capacitor	C4, C6, C40	0402c	CAP	3
6pF	Capacitor	C5, C7	0402c	CAP	2
0.1uF	Capacitor	C14, C25, C33	0402C	CAP	3
10pF/NC	Capacitor	C16, C17, C18	0402C	CAP	3
36pF	Capacitor	C22	0402c	Cap	1
4.7uF	Capacitor	C23	0402c	Cap	1
10pF	Capacitor	C24	0402C	CAP	1
1uF/25V	Capacitor	C27	0402C	CAP	1
22uF/10V	Capacitor	C28, C34, C44, C46, C47, C48	0805C	CAP	6
1000uF	Polarized Capacitor (Surface Mount)	C29, C31	7343	Cap Pol3	2
10uF/10V	Capacitor	C32	0402C	CAP	1
33pF	Capacitor	C43	0402C	CAP	1
1N4148		D1	DIODE_SOP	D	1
SMAJ12CA		D2	SMA	DIODE_SCHOTTKY_0	1
DIODE_SCHOTTKY_0		D3, D4	LL-34(D1206)	DIODE_SCHOTTKY_0	2
10R/1A		FB2	0603R	INDUCTOR1	1
IPEX	IPEX	J1, J2	RF-UFL	ANT	2
27nH		L2	0402R	INDUCTOR_1	1
LQW15A		L3	0402R	INDUCTOR_1	1
SRP4020TA-1R0M		L4, L6	L2520	INDUCTOR_1	2
SRP4020TA-2R2M		L5	L2520	INDUCTOR_1	1
LED		LED1, LED2, LED4, LED5	0603LED	LED	4
Header 5	Header, 5-Pin	P7	5×1.25mmSMT	Header 5	1
MMBT3904		Q2, Q4, Q6, Q7, Q18, Q20	SOT23-3	2N1069_1, NPN	6
Si2369DS	NMOSFET	Q3, Q8, Q10, Q12	sot23-3	NCE4060K	4
S8050		Q9, Q11, Q13	SOT23-3	2N1069_1	3
1MR	Resistor	R1	0402R	Res3	1
10K/1%		R2, R5, R35, R38, R52	0402R	RES1	5
100K	Resistor	R3	0402R	Res2	1
47K		R4, R11	0402R	RES1	2
10K	Resistor	R6, R18, R30, R42	0402R	RES1, Res2	4
470	Resistor	R7	0402R	Res2	1
1K		R9, R65	0402R	RES1	2
4.7K		R10, R16, R22, R24, R28, R31, R32, R40, R44, R46	0402R	RES1	10
1K/1%		R12, R29	0402R	RES1	2
3.95K/1%		R13	0402R	RES1	1
21.5k/1%		R14	0402R	RES1	1
RTH103AT		R15	0603R	RES1	1
534K/1%		R19	0402R	RES1	1
100K/1%		R20, R48	0402R	RES1	2
400K/1%		R21	0402R	RES1	1
10R		R23, R27, R39	0402R	RES1	3
0R		R25, R26	0402R	RES1	2
4K7		R33, R34, R36, R37, R50, R51	0402R	RES1	6
13K/1%		R49	0402R	RES1	1
TPD		T1, T2, T3, T8, T9, T10, T11, T13, T14, T18, T19	TPD	TPD	11
TPD		T4, T5, T6, T7, T15, T16, T17, T20	TP	TPD	8
A7670		U1	A7670	A7670	1
stm32l412r8t6	ARM Cortex-M3 32-bit MCU, 64 KB Flash, 8 KB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 85 degC, Tray	U3	LQFP-64	STM32L100R8T6	1
SIM868E/SIM68		U5	SIM68MB	SIM68MB	1
SAFFB1G56KB0F0A		U8	SAFFB1G56KB0F0A	SAFFB1G56KB0FA	1
AW5005DNR		U9	AW5005	AW5005DNR	1
bq24210		U10	QFN50P200X300X80-10N	bq2410	1
SLI76CF3600P		U11	QFN127P500X600X80-8N	SLI76CF3600P	1
REF3025AIDBZR		U12	SOT23-3	REF3012	1
LIS2MDL		U13	LIS2MDL	LIS2MDL	1
LSM6DS3TR		U14	LSM6DS3TR-C	LSM6DS3TR	1
BMP388		U15	BMP388	BMP388	1
MX25L51245GMI-10G		U16	SOP127P1030X239-16N	MX25L51245GMI-10G	1
TPS61023		U17, U19	SOT563-6	TPS61023	2
TPS610997YFFR		U18	TPS610997YFFR	TPS610997YFFR	1
MC-146 32.768K/6pF	Crystal Oscillator	Y1	32.768K	XTAL	1
8MHz	Crystal Oscillator	Y2	OSCILLATOR-3	XTAL	1