

V3.1 High configuration

Date : 2023-8-19		Writer :			
BOM Revision : Rev 3.1					
NO.	Package	Parts Type	Specification	Qty	Position
Main-V3.1					
1	SMT	Resistance	1/16W-0 Ω \pm 5%-0402	8	L1-L2, C15, R37, R54, R66, R71, R79
2	SMT	Resistance	1/16W-1K Ω \pm 5%-0402	7	R2, R5, R11, R60, R62, R65, R74
3	SMT	Resistance	1/16W-10K Ω \pm 5%-0402	7	R9-R10, R12, R39, R59, R73, R78
4	SMT	Resistance	1/16W-100K Ω \pm 5%-0402	10	R1, R3, R23, R47, R49, R58, R63-R64, R82, R87
5	SMT	Resistance	1/16W-2K Ω \pm 5%-0402	1	R61
6	SMT	Resistance	1/16W-22 Ω \pm 5%-0402	27	R6-R8, R15-R21, R24-R26, R28-R29, R33-R36, R38, R40-R41, R51-R52, R75-R77
7	SMT	Resistance	1/16W-33 Ω \pm 5%-0402	2	R55-R56
8	SMT	Resistance	1/16W-4.7K Ω \pm 5%-0402	7	R13-R14, R22, R43, R48, R50, R53
9	SMT	Resistance	1/16W-49.9 Ω \pm 1%-0402	1	R70
10	SMT	Resistance	1/10W-0 Ω \pm 5%-0603	1	R57
11	SMT	Resistance	1/16W-100K Ω \pm 1%-0402	1	R68
12	SMT	Resistance	1/16W-1M Ω \pm 1%-0402	7	R4, R31, R42, R44, R81, R83-R84
13	SMT	Resistance	1/16W-510K Ω \pm 1%-0402	1	R69
14	SMT	Resistance	1/16W-680K Ω \pm 5%-0402	1	R30
15	SMT	Resistance	1/16W-300K Ω \pm 1%-0402	1	R32
16	SMT	Resistance	1/16W-4.99 Ω \pm 1%-0402	1	R72
17	SMT	Resistance	1/16W-76.8k Ω \pm 1%-0402	1	R27
18	SMT	Capacitance	16V-0.1uF \pm 10%-X7R-0402	17	C7, C13-C14, C19, C21, C24, C29, C31, C34, C45, C51-C52, C58, C74, C86, C97, C110
19	SMT	Capacitance	50V-10pF \pm 5%-NPO-0402	1	C89
20	SMT	Capacitance	50V-22pF \pm 5%-NPO-0402	2	C43, C48
21	SMT	Capacitance	50V-33pF \pm 5%-NPO-0402	2	C62-C63
22	SMT	Capacitance	25V-0.01uF \pm 10%-X7R-0402	5	C4, C6, C56, C64, C71

23	SMT	Capacitance	16V-0.1uF+80/-20%-Y5V-0402	25	C1, C5, C9, C11, C35-C36, C38, C41-C42, C53, C55, C66-C67, C69, C73, C75-C78, C81-C83, C88, C90, C98
24	SMT	Capacitance	50V-18pF±5%-NPO-0402	4	C17-C18, C46-C47
25	SMT	Capacitance	50V-1UF±10%-X7R-0603	1	C100
26	SMT	Capacitance	16V-1UF-10%-X5R-0402	10	C23, C26-C27, C30, C37, C39-C40, C80, C85, C87
27	SMT	Capacitance	50V-2pF±0.25PF-NPO-0402	1	C8
28	SMT	Capacitance	6.3V-10uF±20%-X5R-0402	14	C2, C10, C12, C25, C32, C49-C50, C54, C57, C61, C65, C68, C84, C99
29	SMT	Capacitance	10V-2.2uF±20%-X5R-0402	3	C20, C22, C28
30	SMT	Capacitance	25V-330nF±10%-X7R-0402	1	C79
31		Inductance	10uH±20%-0.75A-2.5x2.0x1.2mm-SMD (NR252012-100M)	1	L4
32	SMT	Inductance	2.2uH+/-20%-950mA-0805 (CMH201209B2R2MT)	1	L3
33	SMT	Crystal	12.000MHz±10PPM-18pF-3225 (JY-3225-12.000-18)	1	X3
34	SMT	Crystal	32.768KHz+/-20PPM-12.5pF-3215-2PAD (CM315D32768DZFT)	1	X2
35	SMT	Crystal	24.000MHz±10PPM-18pF-SMD3225 (SMD3225-24.000M-18)	1	X1
36	SMT	Diode	RB520S30T1G-30V-SOD523	7	D1-D2, D10-D11, D13, D17, D22
37	SMT	ESD	ESD-12V-0402 (ESDPSA0402V12/Semitel)	2	D23-D24
38	SMT	ESD	ESD-5V-0402 (D1006WV05C005BT)	3	D15, D18, D38
39	SMT	Diode	B5819W-40V-1A-SOD-123	2	D16, D37
40	SMT	ESD	ESD-3.3V-0402 (D1006WV033C003BT)	22	D3-D9, D12, D19-D20, D25-D36
41	SMT	Transistor	S9013-NPN-Transistor-40V-0.3W-0.5A-hFE-H SOT23	1	Q7
42	SMT	Transistor	DTC114EE-NPN-SOT523	2	Q10-Q11
43	SMT	Transistor	CJ2301-P-Channel MOSFET 20Vds-SOT23 (JCST)	5	Q1, Q4-Q5, Q8-Q9
44	SMT	Transistor	CJ2310-60V-3A-N-Channel-MOSFET-SOT23 (JCST)	3	Q2-Q3, Q6
45	SMT	Battery	CR2016-3V-battery-SMD	1	BAT1
46	SMT	Switch	YST-1112A-Switch-SMD-ppa-5kg	1	S2
47	SMT	IC	LP3987H-33B5F-3.3V-600mA-LDO-SOT-23-5 (LP Semi)	3	U2, U12-U13
48	SMT	IC	SGM3726YTN6G- LED Driver-20V Input-TSOT23-6 (SGMICRO)	1	U15
49	SMT	IC	ME6119C33M5G-3.3V-400mA-LDO-SOT23-5 (Microne)	1	U1
50	SMT	IC	MH1903-BGA169 (MEGAHUNT)	1	U7
51	SMT	IC	APS6404L3SQR-SN-SOP8 (apmemory)	1	U11
52	SMT	IC	PY25Q128HA-SUH-IT-SO8N (Puya Semiconductor)	2	U8-U9

53	SMT	IC	DS28S60Q+-TDFN12 (Maxim)	1	U4
54	SMT	IC	BR8051A01-QFN32 (BARROT)	1	U3
55	SMT	IC	ATECC608B-SSHDA-T (Microchip)	1	U10
56	SMT	IC	AW32001ECSR-WLCSP-9B (AWINIC)	1	U5
57	SMT	IC	MAX32520-BNS+T-TQFN32 (Maxim)	1	U6
58	SMT	Connector	3PIN-1.25mm-Socket-SMT	1	J4
59	SMT	Connector	24PIN-0.4mm-Female-H0.8mm-SMD (OK-14F024-04/OCN)	1	J1
60	SMT	Connector	10PIN-0.4mm-Male-H0.8mm-SMD (OK-14F010-04/OCN)	1	J3
61	SMT	Connector	40PIN-0.5mm-Female-H2.5mm-SMD (HTT-BM7340-0525-G01)	1	J13
62	SMT	Connector	1PIN-Antenna RF Spring-2.5x1.2x2.6mm-SMD (PSC112-40260-7R)	4	J5-J7, J9
63	SMT	Connector	MicroSD-Socket-SMD (E6502-1)	1	J12
64	DIP	PCB	MainPro-V3.1	1	
PORT-V3.1					
1	SMT	Resistance	1/16W-0 Ω \pm 5%-0402	2	R10-R11
2	SMT	Resistance	1/16W-33K Ω \pm 5%-0402	1	R2
3	SMT	Resistance	1/16W-120K Ω \pm 1%-0402	1	R1
4	SMT	Resistance	1/16W-5.1K \pm 1%-0402	2	R12, R13
5	SMT	Capacitance	16V-0.1uF \pm 10%-X7R-0402	1	C4
6	SMT	Capacitance	50V-22pF \pm 5%-NPO-0402	1	C5
7	SMT	Capacitance	16V-1uF-10%-X5R-0402	2	C1-C2
8	SMT	Capacitance	6.3V-10uF \pm 20%-X5R-0402 (CL05A106MQ5NUN/Samsung)	1	C6
9	SMT	ESD	ESD-5V-0402 (D1006WV05C005BT)	1	D11
10	SMT	ESD	ESD-12V-0402 (ESDPSA0402V12/Semitel)	1	D9
11	SMT	ESD	ESD-3.3V-0402 (D1006WV033C003BT)	2	D2-D3
12	SMT	IC	WS3222D-6.8V-OVP-DFN2x2-8L (WS3222D-8/TR-will)	1	U1
13	SMT	Connector	24PIN-USB3.0-TYPE C-SMD (UA2401050316-104/D-CHAIN)	1	J1