

# TCH-WA01-1\_V1.0\_BOM

No	description	unit	dosage	model	supplier	location
1	WA01-1_Main board,V1.1,8Layers	PCS	1	PCB WA01-1 V1.1	SHENGYI	
2	Solid Tantalum Chip,100uF,±20%,6.3V,S case(3.2*1.6*H1.0),NICHICON	PCS	3	F950J107MSAAQ2	NICHICON	C1 C86 C189
3	Chip Ceramic Capacitor,0.5pF,±0.1pF,50V,COG,0402	PCS	1	GRM1555C1HR50BZ01D	Murata	C187
4	Chip Ceramic Capacitor,100pF,±5%,50V,COG,0402	PCS	22	GRM1555C1H101JA01	Murata	C3 C6 C43 C64 C66-67 C70 C87 C116 C121-123 C133 C136 C156 C158 C190-192 C201-202 C214
5	Chip Ceramic Capacitor,1.5pF,±0.1pF,50V,COG,0402	PCS	3	GRM1555C1H1R5CZ01D	Murata	C112 C124 C153
6	Chip Ceramic Capacitor,18pF,±5%,50V,COG,0402	PCS	1	GRM1555C1H180JZ01D	Murata	L29
7	Chip Ceramic Capacitor,22pF,±5%,50V,COG,0402	PCS	2	GRM1555C1H220JZ01D	Murata	C91-92
8	Chip Ceramic Capacitor,220pF,±5%,50V,COG,0402	PCS	2	GRM1555C1H221JA01	Murata	C108 C110
9	Chip Ceramic Capacitor,27pF,±5%,50V,COG,0402	PCS	1	GRM1555C1H270JZ01D	Murata	C157
10	Chip Ceramic Capacitor,33pF,±5%,50V,COG,0402	PCS	21	GRM1555C1H330JZ01D	Murata	C12 C61-62 C71-72 C100 C103 C105 C127 C131 C138 C146 C148-149 C170-171 C193 C203 C206 C211 C215
11	Chip Ceramic Capacitor,2.2pF,±0.25pF,50V,COG,0402	PCS	2	GRM1555C1H2R2CA01	Murata	L39 L40
12	Chip Ceramic Capacitor,3.9pF,±0.25pF,50V,COG,0402	PCS	1	GRM1555C1H3R9CZ01D	Murata	L20
13	Chip Ceramic Capacitor,68pF,±5%,50V,COG,0402	PCS	1	GRM1555C1H680JZ01D	Murata	C150
14	Chip Ceramic Capacitor,6pF,±0.1pF,50V,COG,0402	PCS	3	GRM1555C1H6R0BZ01D	Murata	C132 C135 C151
15	Chip Ceramic Capacitor,6.8pF,±0.1pF,50V,COG,0402	PCS	1	GRM1555C1H6R8BZ01D	Murata	C98
16	Chip Ceramic Capacitor,8.2pF,±0.5pF,50V,COG,0402	PCS	2	GRM1555C1H8R2DA01	Murata	C93-94
17	Chip Ceramic Capacitor,1uF,±10%,6.3V,X5R,0402	PCS	10	GRM155R61A105KE15D	Murata	C5 C27 C41-42 C83-85 C95-97
18	Chip Ceramic Capacitor,100nF,±10%,10V,X5R,0402	PCS	48	GRM155R61A104KA01	Murata	C4 C8 C20 C28-29 C33 C38-39 C44 C45 C46 C48-54 C56-57 C59-60 C63 C65 C68-69 C74-75 C82 C101-102 C106 C113-114 C117 C119-120 C137 C155 C173 C175-176 C213 C220 C222-223 R1 C89
19	Chip Ceramic Capacitor,10nF,±10%,16V,X7R,0402	PCS	1	GRM155R71C103KA01	Murata	C11
20	Chip Ceramic Capacitor,1nF,±10%,50V,X7R,0402	PCS	12	GRM155R71H102KA01D	Murata	C7 C13-14 C76-81 C90 C109 C221
21	Chip Ceramic Capacitor,3.3nF,±10%,50V,X7R,0402	PCS	2	GRM155R71H332KA01D	Murata	C145 C147
22	Chip Ceramic Capacitor,2.2uF,±10%,6.3V,X5R,0603	PCS	15	GRM188R60J225KE19	Murata	C2 C17-19 C21-26 C36 C55 C154 C177 C212
23	Chip Ceramic Capacitor,4.7uF,±10%,6.3V,X5R,0603	PCS	12	GRM188R60J475KE19	Murata	C34-35 C37 C40 C104 C107 C111 C115 C118 C178-179 C224
24	Chip Ceramic Capacitor,10uF,±10%,6.3V,X5R,0805	PCS	7	GRM219R60J106KE19D	Murata	C9 C15-16 C30-32 C99
25	24pin B TO B Stocket connector,0.4mmPitch,Hight 1.2mm	PCS	1	BAF04-24153-0502	LCN	CON5
26	Battery Connector,3pin,Height=5.8mm,3.0mm pitch,BATSV-00315-TPL1,Saber	PCS	1	BATSV-00315-TPL1	LINKTEK	CON4
27	UIM Socket,6pin,pitch=2.54,15.25×16.20×1.9,CAF99-06193-1504,linkconn	PCS	1	CAF99-06193-1504	LCN	CON1
28	T-Flash socket,Height 1.93mm	PCS	1	CAH11-08193-SF00	LCN	CON6
29	USB Stocket,10 pin , UAF04-10374-1507	PCS	1	UAF04-10374-1507	LCN	CON7
30	Microwave coaxial connector,3x3x1.9mm	PCS	1	MM8430-2610RB3	Murata	CON2
31	Directional coupler,836.50±12.50MHz,20dB coupling,MURATA,0402	PCS	1	LDC15836M20Q-360	Murata	CP1
32	Directional coupler,1950.00±30.00MHz,20.5dB coupling,MURATA,0402	PCS	1	LDC151G9519Q-391	Murata	CP2
33	Ultra bright InGaN White Chip LED,Vf:2.7V,Ir:<100uA@Vr=5V,0603	PCS	6	LTW-C193TS5	LITE-ON	D1-4 D9-10
34	Schottky barrier diode,30V,1A,TUMD2	PCS	1	RB161VA-20	ROHM	D8

35	Chip Ferrite Beads,for EMI,220Ω,±25%,100MHz,20 °C ,0402	PCS	3	BLM15AG221SN1	Murata	FB2 FB4-5
36	Chip Ferrite Beads,for RF break ,1000Ω,±25%,100MHz,20 °C ,0402	PCS	4	BLM15HD102SN1	Murata	FB1 FB6-8
37	Chip Ferrite Beads,for power supplies,120Ω,±25%,100MHz,20 °C ,0603	PCS	1	BLM18KG121TN1	Murata	FB3
38	UMTS BC1 Tx SAW FILTER,1.35x1.05x0.6mm	PCS	1	SAFEB1G95KA0F00	Murata	FL3
39	GSM1800 Rx SAW FILTER,1.35x1.05x0.5mm	PCS	1	SAFEB1G84FC0F00	Murata	FL1
40	Multilayer Chip Band-Pass Filters for Bluetooth	PCS	1	LFB182G45SG9B740	Murata	FL4
41	Chip multilayer inductor,1.5nH,±0.3nH,0402	PCS	1	LQG15HN1N5S02D	Murata	L7
42	Chip multilayer inductor,2.2nH,±0.3nH,0402	PCS	1	LQG15HS2N2S02D	Murata	L15
43	Chip multilayer inductor,2.7nH,±0.3nH,0402	PCS	1	LQG15HS2N7S02D	Murata	C125
44	Chip multilayer inductor,39nH,±5%,0402	PCS	1	LQG15HN39NJ02D	Murata	L27
45	Chip multilayer inductor,3.3nH,300mA,0.1ohm,±0.3nH,Q>8,0402	PCS	1	LQG15HS3N3S02D	Murata	L22
46	Chip multilayer inductor,3.9nH,±0.3nH,0402	PCS	4	LQG15HN3N9S02D	Murata	L19 L47-48 C196
47	Chip multilayer inductor,4.7nH,±0.3nH,0402	PCS	2	LQG15HN4N7S02D	Murata	L37 C134
48	Chip multilayer inductor,15nH,±5%,0402	PCS	3	LQG15HS15NJ02D	Murata	L14 L25 L49
49	Chip multilayer inductor,18nH,±5%,0402	PCS	2	LQG15HS18NJ02D	Murata	L9 C144
50	Chip multilayer inductor,7.5nH,±5%,0402	PCS	2	LQG15HS7N5J02D	Murata	L50 C47
51	Chip Monolithic Inductor,4.7uH,±30%,1100mA,0.14 OHm,0806	PCS	3	LQM2MPN4R7NG0	Murata	L2-4
52	Power MOSFET ,20 Volts P-Channel,SOT-23-3L,WPM2341,WILL	PCS	1	WPM2341	WILL	Q1
53	TRANSISTOR WITH BUILT IN BIAS RESISTORS,SOT-416	PCS	1	DTC114EET	ROHM	Q2
54	Chip Resitor,6.04KΩ,±1%,1/16W,0402	PCS	1	RC0402FR-076K04	YAGEO	R5
55	Chip Resitor,0Ω,±5%,1/16W,0402	PCS	6	RC0402JR-070RL	YAGEO	R31 R33 R36 R38 L24 R52
56	Chip Resitor,100Ω,±5%,1/16W,0402	PCS	9	RC0402JR-07100R	YAGEO	R4 R39 R41 R47-48 R103-106
57	Chip Resitor,10KΩ,±5%,1/16W,0402	PCS	11	RC0402JR-0710KL	YAGEO	R12-18 R30 R32 R45 R53
58	Chip Resitor,1Ω,±5%,1/16W,0402	PCS	1	RC0402JR-071R	YAGEO	R37
59	Chip Resitor,20KΩ,±5%,1/16W,0402	PCS	1	RC0402JR-0720K	YAGEO	R20
60	Chip Resitor,2KΩ,±5%,1/16W,0402	PCS	1	RC0402JR-072K	YAGEO	R3
61	Chip Resitor,2.2KΩ,±5%,1/16W,0402	PCS	2	RC0402JR-072K2L	YAGEO	R11 R27
62	Chip Resitor,300Ω,±5%,1/16W,0402	PCS	5	RC0402JR-07300R	YAGEO	R21 R23-25 R54
63	Chip Resitor,47KΩ,±5%,1/16W,0402	PCS	1	RC0402JR-0747KL	YAGEO	R2
64	Chip Resitor,5.1KΩ,±5%,1/16W,0402	PCS	2	RC0402JR-075K1	YAGEO	R19 R46
65	Chip Resitor,68Ω,±5%,1/16W,0402	PCS	1	RC0402JR-0768R	YAGEO	R40
66	Side key	PCS	3	LS10N2	Citizen	S45 S56 S321
67	UMTS Band5 (824-849MHz) 4x4 Power Amplifier Module	PCS	1	ACPM-7311-OR1	AVAGO	U14
68	UMTS Band1 (1920-1980MHz) 4x4mm Power Amplifier Module	PCS	1	ACPM-7381-OR1	AVAGO	U12
69	Single Chip stereo FM Radio Receiver	PCS	1	AR1000	Airoha	U13
70	Qualcomm Bluetooth System-on-Chip	PCS	1	BTS4025-0-36WLCSP-TR-0	QUALCOMM	U8
71	EMI Filter Array with ESD Protection,CM1422-03CP	PCS	5	CM1422-03CP	CMD	U4-6 U10-11
72	Multi-Chip Product (MCP),2G Bit(128Mx16) NAND Flash / 1G Bit(64Mx16) Mobile DDR SDRAM	PCS	1	H8BCS0SI0MBR-46M	Hynix	U3
73	Qualcomm Single chip,QSC6270	PCS	1	QSC-6270-0-424CSP-TR-09	Qualcomm	U1
74	UMTS Band1 LR type SAW Duplexer,3.0x2.5x0.6mm	PCS	1	SAYZY1G95CA0B00	MURATA	U18
75	UMTS BC5 LR SAW Duplexer,3.0x2.5x1.1mm	PCS	1	SAYZZ836MCA0F00	MURATA	U15
76	Quad-Band GSM850/GSM900/DCS/PCS Power Amplifier Module	PCS	1	TQM7M5012H	TriQuint	U17

77	Dual LDO,SOT-26W,1.8V/2.8V,150mA	PCS	1	XC6401FF20MR	Torex	U2
78	Low Capacitance type chip varistor,60pF,15V,0402	PCS	14	ICVL0505600V150	ICT	VR1 VR3-6 VR20-28
79	Bidirectional Transient Voltage Suppressor ,30pF,0402	PCS	12	ESD9B5V-2/TR	WILL	VR2 VR10 VR13-19 VR29-30 VR32
80	Ultra-Low Capacitance TVS Diode,0.3 pF	PCS	3	RClamp0521P	Semtech	VR7 VR8 VR9
81	Crystal,32.768kHz,±30ppm,12.5pF,3.2x1.5x0.9mm	PCS	1	CC7C-T1A	Micro crystal	XT1
82	Crystal,32.000MHZ,12pF +/-10ppm, 15ppm/PF Pull Pbfree	PCS	1	X3S032000BC1HZ-NU	HARMONY	XT2
83	TCXO,19.200MHz,2.8V ±2ppm at-30°C to +80°C,2.5x3.2x1.0mm	PCS	1	KT21P-DCV28A-19.200M-T	Kyocera	XT3
84	VGA Camera Module,Reflow able	PCS	1	HM0356	himax	CON3
85	BT_SHIELDING_FRAME,	PCS	1			
86	BT_CDMA_SHIELDING_COVER,	PCS	1			
87	6270_SHIELDING_FRAME,	PCS	1			
88	6270_CDMA_SHIELDING_COVER,	PCS	1			