

TG800_V1.3 BOM						
NO.	Name	Model and Specification	Designator	Quantity	Manufacturer	Note
1	Resistance SMD	0R, 1/16W, 0402, ±5%	R19, R40, R59, R60, R215, R217, R220, R263, R264, R265, R266, R269, R270, R271, R272, R340, R342, R350, R352, R354, R356, R362, R364, R366, R367, R373, R375, R379, R381, R385, R388, R440, R441, R442, R443, R444, R445, R446, R447, R392, R404, R416, R428, R393, R405, R417, R429	47	YAGEO	
2		22R, 1/16W, 0402, ±5%	R306, R307, R308, R309, R310, R311, R315, R316, R317, R318, R319, R320	12		
3		33R, 1/16W, 0402, ±5%	R9, R18, R52, R53, R56, R57, R218, R305	8		
4		49R9, 1/16W, 0402, ±1%	R67, R68, R69, R70	4		
5		75R, 1/16W, 0402, ±1%	R207, R208, R209, R210	4		
6		470R, 1/16W, 0402, ±5%	R48	1		
7		1K, 1/16W, 0402, ±5%	R304, R313, R321, R325, R326, R328, R329, R330, R333, R335, R336, R339, R344, R345, R347, R349, R357, R360, R361, R368, R369, R370, R372, R377, R378, R382, R384, R387, R389, R394, R396, R406, R408, R418, R420, R430, R432	37		
8		1.5K, 1/16W, 0402, ±5%	R49	1		
9		3.01K, 1/16W, 0402, ±1%	R74	1		
10		4.7K, 1/16W, 0402, ±5%	R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R338, R341, R348, R351, R353, R355, R358, R359, R363, R365, R371, R374, R376, R380, R383, R386, R448, R449, R450, R451	70		
11		10K, 1/16W, 0402, ±5%	R3, R4, R5, R6, R7, R8, R10, R11, R12, R13, R14, R15, R16, R17, R20, R24, R27, R28, R31, R32, R34, R36, R38, R39, R41, R42, R43, R44, R45, R46, R51, R55, R58, R61, R62, R64, R65, R66, R75, R76, R102, R103, R105, R205, R206, R211, R212, R213, R214, R312, R314, R323, R332, R334, R337, R343, R346, R398, R399, R410, R411, R422, R423, R434, R435	65		
12		12K, 1/16W, 0402, ±5%	R83	1		
13		47K, 1/16W, 0402, ±5%	R100	1		
14		100K, 1/16W, 0402, ±5%	R1, R2, R22, R37, R79, R81, R82	7		
15		10M, 1/16W, 0402, ±5%	R54	1		
16		0R, 1/16W, 0603, ±5%	R85, R86, R88, R89, R91, R92	6		
17		300R, 1/16W, 0603, ±5%	R72, R73, R322, R324, R327, R331, R390, R391	8		

18		10K, 1/16W, 0603, ±5%	R202, R395, R397, R407, R409, R419, R421, R431, R433	9		
19		22. 1K, 1/16W, 0603, ±1%	R204, R402, R403, R414, R415, R426, R427, R438, R439	9		
20		73. 2K, 1/16W, 0603, ±1%	R203	1		
21		93. 1K, 1/16W, 0603, ±1%	R400, R401, R412, R413, R424, R425, R436, R437	8		
22	Capacitance SMD	10pF, 50V, 0402, COG, ±20%	C285, C290, C294, C297, C300, C308, C316, C321, C325, C326, C331, C345, C347, C349, C353, C355, C358, C362, C364, C367, C371, C375, C378, C385, C387, C389, C399, C401, C403, C408, C410, C412, C416, C418, C427, C429, C431, C436, C437, C439, C440, C445, C449, C451, C454, C458, C460, C462	48	YAGEO	
23		22pF, 50V, 0402, COG, ±20%	C51, C52, C107, C108, C268, C270, C276, C277, C106, C109	10		
24		33pF, 50V, 0402, COG, ±20%	C286, C291, C295, C298, C301, C309, C317, C322, C324, C327, C332, C346, C348, C350, C354, C356, C359, C363, C365, C368, C372, C376, C380, C386, C388, C390, C400, C402, C404, C409, C411, C413, C417, C419, C428, C430, C432, C434, C438, C441, C442, C446, C450, C453, C455, C459, C461, C463	48		
25		47pF, 50V, 0402, COG, ±20%	C43, C49, C50	3		
26		150pF, 50V, 0402, COG, ±20%	C42	1		
27		0. 1uF, 16V, 0402, X7R, ±20%	C4, C5, C6, C8, C9, C10, C11, C13, C14, C15, C16, C19, C20, C21, C22, C24, C26, C27, C28, C29, C30, C32, C33, C34, C38, C39, C44, C45, C46, C54, C56, C67, C75, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C96, C97, C98, C99, C100, C103, C104, C129, C130, C131, C132, C135, C141, C142, C143, C144, C145, C147, C227, C228, C230, C231, C232, C233, C234, C235, C237, C239, C242, C243, C244, C245, C246, C247, C248, C250, C264, C265, C273, C274, C111, C112, C113, C114, C115, C116, C117	90		
28		0. 22uF, 6. 3V, 0402, X7R, ±20%	C23	1		
29		0. 47uF, 6. 3V, 0402, X7R, ±20%	C17	1		
30		1uF, 6. 3V, 0402, X7R, ±20%	C1, C2, C3, C7, C12, C18, C25, C31, C35, C36, C37, C55, C57, C60, C61, C62, C63, C64, C68, C69, C70, C71, C72, C76, C77, C78, C79, C80, C82, C83, C289, C293, C299, C302, C319, C323, C328, C343, C351, C352, C360, C361, C366, C369, C382, C383, C392, C393, C396, C407, C414, C415, C420, C421, C435, C443, C444, C447, C448, C452, C456, C457, C110, C105,	64		
31		3. 3nF, 50V, 0603, X7R, ±20%	C223, C479, C481, C497, C499, C515, C517, C533, C535	9		
32		0. 1uF, 50V, 0603, X7R, ±20%	C220, C224, C256, C257, C258, C259, C260, C261, C262, C263, C267, C269, C271, C272, C275, C278, C279, C281, C292, C296, C303, C337, C357, C370, C391, C468, C469, C470, C471, C486, C487, C488, C489, C504, C505, C506, C507, C522, C523, C524, C525	41		
33		1uF, 16V, 0603, X7R, ±20%	C222, C478, C480, C496, C498, C514, C516, C532, C534	9		

34		4. 7uF, 16V, 0603, X7R, $\pm 20\%$	C280, C282, C283, C284, C287, C288, C304, C305, C306, C307, C310, C311, C312, C313, C314, C315, C318, C320, C329, C330, C333, C334, C335, C336, C338, C339, C340, C341, C342, C344, C373, C374, C377, C379, C381, C384, C394, C395, C397, C398, C405, C406, C422, C423, C424, C425, C426, C433	48		
35		0. 47uF, 25V, 0805, X7R, $\pm 20\%$	C195	1		
36		2. 2uF, 16V, 0805, X7R, $\pm 20\%$	C81	1		
37		10uF, 10V, 0805, X5R, $\pm 20\%$	C40, C41, C47, C48, C53, C58, C59, C65, C66, C73, C74, C84, C95, C101, C102, C146, C236, C238, C240, C241, C266, C118	22		
38		22uF, 10V, 1206, X5R, $\pm 20\%$	C225, C226, C474, C475, C476, C477, C492, C493, C494, C495, C510, C511, C512, C513, C528, C529, C530, C531	18		
39		10uF, 25V, 1210, X5R, $\pm 20\%$	C218, C219, C464, C465, C466, C467, C482, C483, C484, C485, C500, C501, C502, C503, C518, C519, C520, C521	18		
40		470uF, 25V, 10*10, $\pm 20\%$	C196	1		
41		1nF, 2KV, 1206, $\pm 20\%$	C229	1		
42	Inductance	1uH, $\pm 30\%$, 2. 8*2. 8*1. 1mm, Idc:1. 9A, Rdc:85m Ω , 744028001	L3, L4, L5	3	WE	
43		2. 2uH, $\pm 20\%$, 7. 3*7. 3*4. 5mm, Idc:6A, Rdc:13m Ω , 744777002	L49, L53, L54, L55, L56, L57, L58, L59, L60	9	WE	
44		742792063, 0805, 100MHz/60 Ω , $\pm 25\%$, Idc:3A, Rdc:25m Ω	L2, L6, L7, L52	4	WE	
45	Transformer	SMD, 749010012, 100kHz/100mV@8mA DC-Bias时, 350uH	T1	1		
46	DIODO	B530C-13-F, SMC	D1	1	DIODES	
47		SMBJ12CA, DO-214AA	R185	1	Littelfuse	
48		MI, LED ϕ 3, HFG203P, green	V1, V2, V3, V4, V5, V6	6		
49	MOS	2N7002, SOT-23, Nmos	U58, U61, U65, U67, U70, U72, U74, U76, U84, U85, U88, U89, U92, U93, U96, U97	16		
50	FUSE	SMD, 0451005. MRL	F1	1	Littelfuse	
51	Battery	CR2032, ϕ 20 \times 3. 2mm, 3V, 200-230mAh	installed in BT1	1		
52	Crystal /Oscillator	OSC_5*7, 2. 048MHz, 30ppm	X2	1	shenzhen genuway	
53		SMD3225, 24M, 3. 2*2. 5mm, ± 20 ppm, 15pF	Y3	1	shenzhen genuway	
54		SMD3225, 25M, 3. 2*2. 5mm, ± 20 ppm, 15pF	Y2	1	shenzhen genuway	
55		OSC_5*7, 26MHz, 30ppm, 1. 8V	X1	1	shenzhen genuway	
56		Plug-in Crystal, MI, 32. 768KHZ, ± 20 ppm, 12. 5pF	Y1	1	shenzhen genuway	
57	SOCKET	Battery socket connector, Diameter 22mm, max 24mm	BT1	1		
58		PIN HEADER 3. 96mm pitch 1*4pin	J31	1		
59		PIN HEADER 2. 54mm pitch 2*12pin	J39, J40, J41, J42, J43, J44, J45, J46	8		
60		PIN HEADER 2. 54mm pitch 1*6pin	J47, J48, J49, J50, J51, J52, J53, J54	8		

61	SOCKET	PIN HEADER 2.54mm pitch 1*5pin and 1*6pin	J55, J56, J57, J58	4		
62		SIM CARD 475531001, 6PIN, with regs	J34, J35, J36, J37	4	MOLEX	
63		RJ45 socket HY5JA88	J32	1		
64		RJ45 SOCKET HY56A08	J4	1		
65	SWITCH	Touch switch, 6*6*6mm, horizontal	J33	1		
66	IC	SMD, DM3730CUS100, BGA423	U1	1	TI	
67		SMD, TPS65930A2ZCH, PBGA-139	U2	1	TI	
68		SMD, SN74LVCH16T245DGGR, TSSOP-48	U46	1	TI	
69		SMD, SN74LVC2G07DBVR, SOT-23	U15, U17	2	TI	
70		USB to uart , CP2108, QFN-64	U48, U49	2	siliconLabs	
71		SMD, MT29C4G96MAZBACKD-5 WT, TFBGA137	U4	1	MICRON	
72		SMD, KSZ8851-16MLL, LQFP-48	U5	1	micrel	
73		IIC 4口 HUB, PCA9518, TSSOP-20	U50, U52	2	TI	
74		USB HUB, USB2512B-AEZ , QFN36	U3	1	SMSC	
75		SMD, SN74LVC1G125 , SOT-23	U53, U54, U59, U60, U63, U66, U68, U71, U73, U75	10	TI	
76		SMD, WM8510GEDS/RV, SSOP-28	U69, U77, U78, U79, U80, U81, U82, U83	8	TI	
77		SMD, SP3232EEY-L, TSSOP-16	U9	1	EXAR	
78		SMD, EPM3064ATC100, TQFP-100	U56	1	altera	
79		SMD, SMF05C, SC70_6L	U55, U57, U62, U64	4		
80		SMD, TXS0102DCTR, SSOP8	U13, U47	2	TI	
81		SMD, DM2016N, SOP-8	U14	1	SDMC	
82		SMD, TPS54328DDA, SOP-8	U45, U86, U87, U90, U91, U94, U95, U98, U99	9	TI	
83		SMD, SN74LVC1G08DBVR, SOT-23	U42	1	TI	
84	Circuit Board	Main Board, Immersion gold process material: FR4, thickness: 1.8mm, 6 layers		1	china fastprint	
85	power	EPS-65-12 AC: 100-240V, 1.5A, DC: DC12V/5.42A, TUV, GS, FCC, CE, UL, ROHS, MADE IN CHIAN		1	MeanWell	
86	Antenna	Antenna, frequency coverage: 824~960 MHz, 1710~1990 MHz, input impedance: 50Ω, standing wave ratio<2, gain:2.5 dBi (824~960 MHz)3 dBi 1710~1990 MHz), polarization mode vertical, radiation direction: omnidirectional, power: 20 W, Height: 208±2 mm, connector: SMA-J, radome material: TPEE, color: black			Huahong Communication	

87		RF Jumper Cable, SMAK-TC35-24 tieline, frequency coverage: 800-2000 MHz, length 100 mm, input impedance: 50Ω, connector: SMA-K, loss≤0.2dB , COAXIAL CABLE: UL1354 RF-1.13 (black) , power: 50W , adapter: I-PEX			Huahong Communication	
88	GSM module	SIM800 S2-105MB-Z1603, FCC ID:UDV-201314	Mount in MODE1, MODE2, MODE3, MODE4 MODE5, MODE6, MODE7, MODE8	8		