

## Zen U5 2nd Gen BOM

No	English Name	Description	MPN	Qty	Location
1	IC-CPU	IC-CPU, MTK Platform GSM/TD-SCDMA/WCDMA/TDD-LTE/FDD-LTE Phone Baseband Processor, with Octa-cortex-A53@1.3GHz;FHD Display;TFBGA-641balls;12.6*12.6*0.9mm;0.4pitch	MT6753V/WAHH	1	U501
2	IC-PMU	IC-PMU, MTK Power Manangement system chip for 2G/3G/4G smart phones;VFBGA-206balls;6.6*6.6*1.0mm;0.4pitch	MT6328V/AN	1	U801
3	Memory	16GB e.MMC + 16Gb(4Gb*4) QDP LPDDR3 SDRAM, 221FBGA, 11.5x13x1.2mmt	KMR820001M-B609	1	U1001
option	IC-eMMC+LPDDR3	eMMC+LPDDR3, 32bit, 16GB+16Gb, 221B, 1.0	KMQ820013M-B419	0	U1001
4	IC-Flash LED Driver	IC-Flash LED Driver, Output Current up to 1A at VIN=4.2V, Package:DFN, 3.05*3.05*0.8mm	OCP8111CVAD	1	U1400
5	IC-Serial LED Driver	IC-Serial LED Driver, drive up to 10 white LEDs in series and 3S9P LEDs with 1.2A current limit and 40V OVP, 3*3*0.9mm, TSOT-23-6L	WD3119F-6/TR	1	U1301
6	IC-ACCELERATION SENSOR	IC-8 bit and Tri-axis digital accelerometer;2*2*0.9mm	KXTJ2-1009	1	U1502
7	Charge Pump	IC-charge pump 5V 275mA	AW3632DNR	1	U1601
8	IC-RF TRANSCEIVER	IC-RF TRANSCEIVER, MTK Platform Full multi-mode RF solution(GGE/WCDMA/TDSCDMA/LTE) and Multi-band (LTE/WCDMA/TD-SCDMA/Qual-band GGE) Transeiver, TFBGA-175L, 6.2*5.4*0.9mm, 0.4Pitch	MT6169V/AM	1	U400
9	IC-AUDIO	IC-AUDIO AMPLIFIER, AB/D CLASS, 0.65W/0.85W, Pb Free	AW8155FCR	1	U1200
10	IC-PS&ALS&IR LED	IC-Ambient light(ALS) +Proximity Sensor(PS) , built-in IR LED, 16bit, VDD:2.4~3.6 V, DFN-8PIN, 4.04 x 2.46 x 1.45 mm	ePL2182KQWJP	1	U1500

11	CRYSTAL-32.768KHz	CRYSTAL-32.768KHz, LC-12.5PF, +/-20ppm, 3.2*1.5*0.8mm	Q13FC1350000400	1	X800
option	CRYSTAL-32.768KHz	CRYSTAL-32.768KHz, LC-12.5PF, +/-20ppm, 3.2*1.5*0.8mm	ST3215SB32768H5HPWAA	0	X800
12	VC_TCX0_26M	VC_TCX0-26MHz ±2ppm, 2.5x2.0x0.8mm	KT2520K26000DCW28QAS	1	X400
13	TCX0_26M	TCX0-26MHz ±0.5ppm, 2.5x2.0x0.8mm	KT2520K26000ZAW18TAS	1	X1100
14	FLASH_LED	LED light AC500mA, light 70lm	EHP-C04-NT21A-P01-TR	1	D1401
15	EMI filters	2 channels Common mode EMI filters with Common mode impedance 90Ω at 100MHz-0.85x0.65x0.45mm SIZE	TCF 03025 FH 900 02A	5	F1301 F1303 F1305 F1307 F1309
16	IC-Amplifier	IC-Low Frequency Amplifier, PNP, -30V, -3A, Power Transistor, PDFN3x2-8L, T=0.9mm	WPT2N41-8/TR	1	Q901
17	DIODE	TRAN_N-channel with ESD protection, Vgs=+/-6V, SOT523	WNM4002-3/TR	1	Q902
option	DIODE	TRAN_N-channel with ESD protection, Vgs=+/-20V, sot723	PNM723T703E0-2	0	Q902
18	TVS	TVS-Nonpolar, 4.5V, 130A, 21V, 550pF, SOD-323	PTVSHC3D4V5B	1	D900
19	WHITE LED	DIODE-LED, WHITE, VF=2.7@5mA, VR=5V, 0603	GT-197 (X1)	1	D1602
20	HALL effect Switch IC	IC-HALL SWITCH, Bipolar detection; B(op)=3.0mT; B(rp)=2.1mT; HVSOF5, 1.60*1.60*0.6mm	BU52011HFV-TR	1	U1501
21	RF PA	IC-RFPA+Switch, Tx-Rx FEM for Quad-Band GSM / GPRS / EDGE w/ Eight Linear TRx Switch Ports, Dual-Band TD-SCDMA, and TDD LTE Band 39, MIPI Control, 5.5 mm x 5.3 mm x 1 mm	HRTXAH008	1	U111

22	Bluetooth/WLAN SAW Filter	SAW, filter for Bluetooth/WLAN with LTE Band 7 coexistence, 1.4 x 1.1 x 0.4mm	B39242B9604P810	1	U1100
23	SAW	IC-GPS SAW FILTER	SF14-1575F5UUA1	1	U1
option		GPS/GLONASS RX SAW Filter	F6KA1G575L4AJ-Z	0	U1
24	IC-Duplexer	IC-Duplexer with balanced Rx output, BAND4 Insertion loss 1.4db for TX 1.8db for RX, 1.8x 1.4 x 0.6 mm	SAYEY1G73CA0F0A	1	U100
25	THERMISTOR	THERMISTOR, NTC 100K RT=1% R=1% B=4250 ROHS	NTCG104EF104FT	2	NTC233 NTC600
option	THERMISTOR	RES-NTC, 100K, +/-1%, 1/16W-0402	NCP15WF104F03RC	0	NTC233 NTC600
26	IC-Duplexer	IC-Duplexer with balanced Rx output, BAND7 Insertion loss 2.3db for TX 1.9db for RX, 1.8x 1.4 x 0.6 mm	SAYEY2G53CA0F0A	1	U102
27	IC-Duplexer	IC-Duplexer with balanced Rx output, BAND2 Insertion loss 1.9db for TX 2.1db for RX, 1.8x 1.4 x 0.6 mm	SAYEY1G88CA0B0A	1	U104
28	IC-Duplexer	IC-Duplexer with balanced Rx output, BAND5 Insertion loss 1.4db for TX 2.0db for RX, 1.8x 1.4 x 0.6 mm	SAYEY836MCA0F0A	1	U105
29	IC-Duplexer	IC-Duplexer with balanced Rx output, BAND17 Insertion loss 1.3db for TX 2.1db for RX, 1.8x 1.4 x 0.6 mm	SAYEY710MCC0F0A	1	U108
30	IC-LNA for GPS-AR8159-AIROHA	IC-GPS_LOW_NOISE_AMP_AR8159_AIROHA	AR8159-S85UDG	1	U1104
31	Antenna switch	0.1 - 3.0GHz SP6T Antenna Switch ,LOSS 0.7 dB typical @ 2.7 GHz, 2.0 x 2.0 x 0.6 mm 14-pin QFN	VC1616	1	U300
32	SAW RX Filter	SAW, GSM900 RX(primary), Insertion Loss 1.5db, 1.1 x 0.9 x 0.5 mm	SAFFB942MFLOF0AR15	1	U109
33	SAW RX Filter	SAW, GSM1800 RX(primary), Insertion Loss 1.5db, 1.1 x 0.9 x 0.5 mm	SAFFB1G84FB0F0AR15	1	U101

34	SAW RX Filter	SAW,WCDMA BAND2 RX, Insertion Loss 3.1db, 1.1 x 0.9 x 0.5 mm	SAFFB1G96FN0F0AR15	1	U301
35	SAW RX Filter	SAW,WCDMA BAND1 RX(diversity), 1.1 x 0.9 x 0.4 mm	B39212B9869P810	1	U302
36	SAW RX Filter	SAW,WCDMA BAND7 RX(diversity), 1.1 x 0.9 x 0.5 mm	SAFFB2G65FB0F0AR15	1	U303
37	SAW RX Filter	Band 17 single SAW filter,Balanced,insertion loss 2.1db,1.1mm x0.9mm x 0.5mm, 5 -pin configuration	SAFFB740MFA0F0A	1	U304
38	IC-4in1	IC-MT6625LN, Single Chip Integrated with WIFI BT FM, GPS, QFN40, 5.0*5.0*0.85	MT6625LN/AM	1	U1101
39	RF PA	Single Mode PA for Band4, MIPI Control, 4.0 mm x 6.8 mm x 1 mm	HRSMAC003	1	U201
40	Multilayer Chip Diplexer	SAW GPS-BT/WLAN Multilayer chip Diplexer/Dual-band at1.5GHz and 2.4GHz&5GHz	DP1608-V1524CAT/LF	1	F1100
41	Power Inductor	IND-POWER INDUCTOR-0.33uH, +/-20%, DCR=39m $\Omega$ , Isat=4.8A Irms=3.5A, 1.0H-2520	WPN252010HR33MT	1	L805
option	Power Inductor	IND-POWER INDUCTOR-0.33uH, +/-20%, DCR=26m $\Omega$ , Isat=6.0A Irms=4.5A, 1.0H-2520	MPIA252010-R33M-LF	0	L805
option	Power Inductor	IND-POWER INDUCTOR-0.33uH, +/-20%, DCR=31m $\Omega$ , Isat=5.0A Irms=3.8A, 1.0H-2520	MHCD252010B-R33M-A8L	0	L805
42	Power Inductor	IND-POWER INDUCTOR-0.47uH, +/-20%, DCR=35m $\Omega$ , Isat=4.2A Irms=3.3A, 1.0H-2016	PCSB20161T-R47MS	3	L802 L803 L804
option	Power Inductor	IND-POWER INDUCTOR-0.47uH, +/-20%, DCR=33m $\Omega$ , Isat=4A Irms=3.3A, 1.0H-2016	WPN201610UR47MT	0	L802 L803 L804
43	INDUCTANCE	IND-POWER INDUCTOR-2.2uH, +/-20%, DCR=0.116, 1830mA, 1.2H-2520	PMLT25201B-2R2MS	1	L801
option	INDUCTOR-2.2uH	IND-POWER INDUCTOR-2.2uH, +/-20%, DCR=0.096, 1.80A, 1.2H-2520	SPH252012H2R2MT	0	L801

44	Power Inductor	IND-POWER-10uH, 20%, DCR=0.377ohm, 0.54A, H=1.2mm, 3012	MPIT3012-100M-LF	1	L1300
45	Antenna_Spring	Antenna_Spring, 3.57*1.5*0.9, Working Height0.5mm , SMT	81800B794	5	ANT301 ANT302 ANT303 ANT1100 ANT1101
46	CON-BATT	CON-BATT, 3PIN, 3PITCH, 9.6*6.0*1.55, WITH 2 DIPS	02-038115d	1	J900
47	CON-BTB socket 30pin	CON-BTB socket 30pin, H=0.8	BB1R4-30K6J13	1	J1411
48	CON-I/O	CON-I/O, H=2.45, 5PIN, 0.65PITCH, 4-DIP	UAF95-05254-1535	1	J1611
49	USS RF CONN	L2.0*W2.0*H0.7mm, 50Ω, 4 pin, H1.3mm	818000531	1	J102
50	MINI_RF_CONN	L2.0*W2.0*H1.0mm, With Switch, 50Ω	818000291	2	J101 J301
51	CON-MICRO SIM SOCKET 1.6H	1.6Hsmall sim card slot, CON-MICRO SIM SOCKET, H=1.60, 6PIN	03-062113C-B	2	J1603 J1604
52	CON-TFLASH	CON-TFLASH 11.25*7 H=1.5, 9pin, 1.1pitch, PIN	CAF11-08153-0114	1	J1602
option	CON-TFLASH	CON-TFLASH 11.2*6.05 H=1.5, 9pin, 1.1pitch	TFS25-9KC0000	0	J1602
53	CON-ZIF	CON-ZIF 0.3pitch, H=1.0, FPC=0.2, 21PIN	ECF031021G-L	1	J1401
option	CON-ZIF	CON-ZIF 0.3pitch, H=1.0, FPC=0.2, 21PIN	BL125-21RL-TAGF	0	J1401
54	CON-BTB socket 40pin	CON-BTB socket 40pin, H=0.8	BB1R4-40K6J13	1	J1322
55	AUDIO JACK	D3.5, 12.6*8.3*3.6, 6DIP, 4.0H, L:0.8mm。	PH10-3B05F35B	1	J1200
56	S511_BB_SHIELDING	34*27.4*1.35 (0.2T)	S511_BB_SHIELDING	1	SH101

57	S511_RF_SHIELDING	17.8*14.85*1.35 (0.2T)	S511_RF_SHIELDING	1	SH100
58	S511_4G_SHIELDING	18.1*9.85*1.35 (0.2T)	S511_4G_SHIELDING	1	SH102
59	S511_GPS_SHIELDING	12.85*12.15*1.25 (0.2T)	S511_GPS_SHIELDING	1	SH103