

# SAR Test Reduction for ZTE3200

The device, ZTE3200 can be operated as hotspot either with or without iPod Touch clipped together. It can only attach to iPod Touch 2 or 3 since the internal shape design.

## 1. Conducted Output Power

<ZTE3200 / FCC ID: Q78-ZTE3200>

Band	CDMA2000 BC0			CDMA2000 BC1		
Channel	1013	384	777	25	600	1175
Frequency (MHz)	824.70	836.52	848.31	1851.25	1880.00	1908.75
1xRTT RC1+SO55	23.58	22.92	22.90	23.16	23.59	23.24
1xRTT RC3+SO55	23.51	23.01	22.96	23.29	23.66	23.38
1xRTT RC3+SO32	23.62	23.00	22.87	23.29	23.55	23.33
EVDO RTAP 153.6	23.59	23.02	22.87	23.22	23.58	23.35
EVDO RETAP 4096	23.57	23.00	22.86	23.08	23.52	23.33

Band	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Peak Power	15.30	13.23	16.16	21.53	19.98	22.79
Average Power	12.45	10.60	13.52	12.12	10.35	13.30

<iPod Touch 2 / FCC ID: BCGA1288>

Band	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Peak Power	18.17	18.15	18.57	24.24	24.04	22.86
Average Power	16.66	16.36	16.18	16.40	16.50	15.30

<iPod Touch 3 / FCC ID: BCG-2310>

Band	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency (MHz)	2412	2437	2462	2412	2437	2462
Peak Power	18.17	17.03	17.74	22.36	23.36	22.24
Average Power	15.10	15.00	15.10	14.10	15.10	14.00

## 2. SAR Test Results

FCC ID: ZTE3200

A) DUT Combinations	B) Tx Modes	C) Test Position (DUT)
1) ZTE3200 2) ZTE3200 + iPod Touch 3 3) ZTE3200 + iPod Touch 2	1) ZTE3200 CDMA2000	1) Rear Face 2) Front Face 3) Right Side 4) Left Side 5) Top Side 6) Bottom Side

NOTE 1—modes and modulations tested per KDB 941225 (all subdocuments therein where applicable); KDB 248227 for 802.11abg

NOTE 2—Only the Apple iPod Touch 3 was used for SAR evaluation since both iPod Touch 2 and iPod Touch 3 have the same dimension and ID design

NOTE 3—The separation distance between DUT and phantom is 10 mm for all test positions for SAR testing

NOTE 4—According to KDB 648474, the WLAN SAR for ZTE3200 is not required because its average power is less than 60/f.

NOTE 5—According to Apr. 2010 FCC-TCB conference notes, ZTE3200 use the highest power channel to determine test reduction for each mode

### SINGLE-TRANSMIT:

Row#	Body	A) DUT Combinations	B) Tx Modes	C) Test Position (DUT)	BC0 Ch1013 824.70	BC0 Ch384 836.52	BC0 Ch777 848.31	BC1 Ch25 1851.25	BC1 Ch600 1880.00	BC1 Ch1175 1908.75	.11b Ch1 2412.0	.11b Ch6 2437.0	.11b Ch11 2462.0	.11g Ch1 2412.0	.11g Ch6 2437.0	.11g Ch11 2462.0
1	B	1	1	Rear	0.969	1.31	1.23	1.12	1.26	1.35						
2	B	1	1	Front	0.421				0.479							
3	B	1	1	Right	0.632			0.775	1.08	1.22						
4	B	1	1	Left	0.339											
5	B	1	1	Top	0.045				0.346							
6	B	1	1	Bottom	0.011				0.168							
7	B	1	2	Rear												
8	B	1	2	Front												
9	B	1	2	Right												
10	B	1	2	Left												
11	B	1	2	Top												
12	B	1	2	Bottom												
13	B	1	3	Rear												
14	B	1	3	Front												
15	B	1	3	Right												
16	B	1	3	Left												
17	B	1	3	Top												
18	B	1	3	Bottom												
19	B	2	1	Rear	1.05	1.33	1.29	0.861	1.1	1.32						
20	B	2	1	Front	0.298				0.608							
21	B	2	1	Right	0.551			0.875	1.05	1.38						
22	B	2	1	Left	0.366				0.122							
23	B	2	1	Top	0.075				0.244							
24	B	2	1	Bottom	0.012				0.066							
25	B	2	2	Rear												
26	B	2	2	Front												
27	B	2	2	Right												
28	B	2	2	Left												
29	B	2	2	Top												
30	B	2	2	Bottom												
31	B	2	3	Rear												
32	B	2	3	Front												
33	B	2	3	Right												
34	B	2	3	Left												
35	B	2	3	Top												
36	B	2	3	Bottom												
37	B	3	1	Rear	0.911	1.22	1.19	0.823	1.15	1.26						
38	B	3	1	Front	0.284				0.449							
39	B	3	1	Right	0.591			0.684	0.941	1.19						
40	B	3	1	Left	0.415				0.189							
41	B	3	1	Top	0.077				0.23							
42	B	3	1	Bottom	0.015				0.048							
43	B	3	2	Rear												
44	B	3	2	Front												
45	B	3	2	Right												
46	B	3	2	Left												
47	B	3	2	Top												
48	B	3	2	Bottom												
49	B	3	3	Rear												
50	B	3	3	Front												
51	B	3	3	Right												
52	B	3	3	Left												
53	B	3	3	Top												
54	B	3	3	Bottom												

**Note:** Because the test separation distance is difference for 0 mm gap and 10 mm gap, the SAR trend for Rear Face and Right Side have different effect.