

Project Name :	Excalibur	Date:	06/07/2006
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FCC Antenna Pre-test Report

Embedded Quad-Band Antenna

1. Overview

The document is the specification of the embedded Quad-band antenna for phone applications. Quad -band includes GSM850, GSM900, DCS1800, PCS1900,.

1.1 Denotations

dBi: Decibel relative isotropic antenna VSWR: Voltage Standing Wave Ratio Tx: Transmit frequency Rx: Receive frequency GSM: Global Service for Mobile communication PCS: Personal Communication System DCS: Digital Communication System SAR: Specific Absorption Rate Peak Gain: The peak value of the antenna gain Average Gain: The average value of the antenna gain

1.2 Antenna Type

EDGE : shorting monopole type WLAN : shorting monopole type BT : PIFA type

1.3 Antenna Brand EDGE:HTC WLAN:HTC BT:HTC

1.4 Antenna Model name EDGE : D00031388 WLAN : 36H00417-00M BT : D00031818

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FCC Antenna Pre-test Report

Gain measurements

2.1 EDGE 3D Antenna Gain Measurement Result

Frequency (MHz)	824	894	960	1710	1850	1990
Peak Gain (dBi)	-1.9	-0.96	-3.98	-1.42	+1.68	-0.07
Average Gain (dBi)	-4.16	-4.65	-7.54	-4.52	-1.55	-3.66

2.2 Bluetooth 2D Antenna Gain Measurement Result

Frequency (MHz)	2402	2441	2480
Peak Gain (dBi)	+0.54	+1.51	+1.13
Average Gain (dBi)	-2.98	-2.76	-2.02

2.3 WLAN 2D Antenna Gain Measurement Result

Frequency (MHz)	2412	2442	2472
Peak Gain (dBi)	+0.99	+1.48	+0.09
Average Gain (dBi)	-4.08	-2.73	-4.57

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50	Cha	nnel	128	189	251
	EIRP	(dBm)	30.30	32.10	32.40
_	Cell pow	er (dBm)	-108	-107.5	-106
	Cha	nnel	975	42	124
GSM		(dBm)	28.48	28.86	28.79
		(dBiii) er (dBm)	-104.5	-106	-104.5
_	Cha	nnel	512	698	885
CS		(dBm)	26.87	27.27	28.64
_		(dBill) er (dBm)	-107	-107.5	-108
CS	Cha	nnel	512	661	810
	EIRP	(dBm)	30.17	30.70	31.56
		er (dBm)	-108	-108	-109
5 Bluetooth		d EIS Mea			
Chan	nel	0	39	78	
EIRP (d Bm)	+1.26	+1.92	+3.21	
Sensitivit	y (dBm)	-80.8	-80.3	-82	
6 WI AN FIF	RP Measu	urement R	esult		
	nel	0	39	78	
Chan			12.5	11.5	

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