

Antenna Report

Model Name :	IOLITE100	Date:	12/16/2008
Project Manager:	Lydia_Wu	Author	Derek_Lin

Countersign:

Derek_Lin _____

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Embedded GSM/WCDMA, WiFi / BT, GPS Antenna

1. Overview

The document is the specification of the embedded GSM/WCDMA, WiFi / BT, GPS antenna for phone applications.

1.1 Denotations

dBi: Decibel relative isotropic antenna

Tx: Transmit frequency

Rx: Receive frequency

GSM: Global Service for Mobile communication

WCDMA: Wideband Code Division Multiple Access

Peak Gain: The peak value of the antenna gain

1.2 Antenna Type

GSM/WCDMA : PIFA type

WiFi / BT : PIFA type

GPS : PIFA type

1.3 Antenna Brand

GSM/WCDMA : HTC

WiFi / BT : HTC

GPS : HTC

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2. Gain measurements

GSM/WCDMA 3D Antenna Gain Measurement Result

Frequency (MHz)	824	849	1850	1910
Peak Gain (dBi)	-2.0	-2.0	1.0	1.0

WiFi / Bluetooth 3D Antenna Gain Measurement Result

Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	0.5	0.7	1.0

GPS 3D Antenna Gain Measurement Result

Frequency (MHz)	1575
Peak Gain (dBi)	-1.5

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3. Active measurements

GSM/WCDMA EIRP and EIS Measurement Result

	Channel	128	189	251
GSM 850	EIRP (dBm)	29.85	30.62	31.17
	Sensitivity (dBm)	-109.46	-110.08	-109.11
	Channel	512	661	810
PCS 1900	EIRP (dBm)	30.48	30.21	29.73
	Sensitivity (dBm)	-109.47	-110.1	-109.43
	Channel	9262	9400	9538
WCDMA II	EIRP (dBm)	24.40	24.76	24.85
	Sensitivity (dBm)	-110.02	-111.1	-110.88
	Channel	4132	4175	4233
WCDMA V	EIRP (dBm)	21.45	21.56	22.07
	Sensitivity (dBm)	-111.27	-111.53	-111.03

WiFi EIRP and EIS Measurement Result (11Mbps)

Channel	1	6	11
EIRP (dBm)	18.41	19.46	20.66
Sensitivity (dBm)	-90.15	-88.2	-89.26

Bluetooth EIRP and EIS Measurement Result

Channel	0	39	78
EIRP (dBm)	0.65	0.77	1.49
Sensitivity (dBm)	-88.05	-89.17	-89.49

4. Antenna Materials

The antenna can not have the materials of plumbum (Pb), halogen and mercury (Hg).

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