Magnum Bar Code Scanner - WLAN Antenna Datasheet



2.4 GHz _ 5 GHz Dual Band WLAN Antenna

Specification File under Antenna Products, 90-005352009 April 16

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Amphenol Malaysia – ATMM

Features

- This dual-band IFA antenna type has been designed for Wireless Bar Code Scanner, providing superior efficiency and gain directivity in a very small flex surface.
- Designed for IEEE 802.11 a/b/g bands.
- Omnidirectional radiation
- Compact size W x L (35 x 22 mm)
- Antenna pad connected to Molex 4-pin ZIF connector

Electrical Specifications

Frequency range	2.4 GHz – 2.5 GHz
	4.92 GHz – 5.3 and 5.85 GHz
Nominal Impedance	50 Ohms
VSWR	2.3:1 and 2.9:1
Peak Gain	2.4 GHz 3 dBi, 5 GHz -3.09 dBi
Radiation pattern	Omnidirectionnal
Polarization	Linear

Applications	Bar Code Scanner



Amphenol Malaysia - ATMM , Antennas Activity , Plot 1A, Bayan Lepas Free Industrial Zone 1, -11900- Penang Malaysia

Peak Gain Data WLAN Antenna

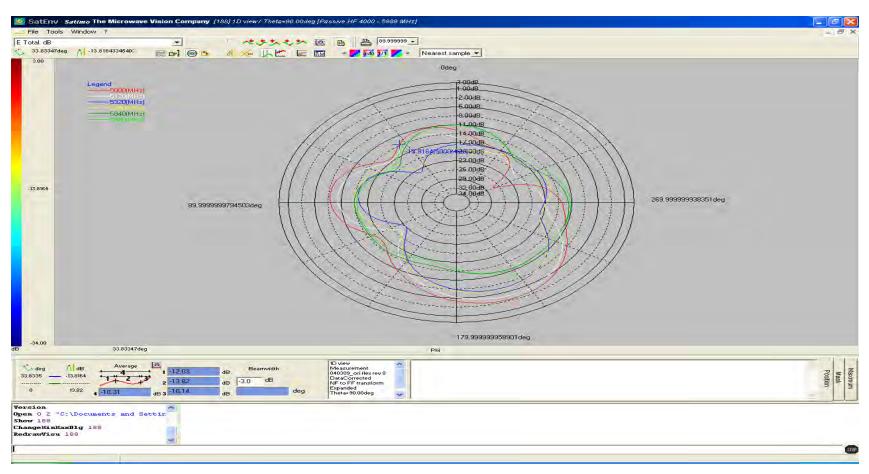
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ncy	E Total. dB(dB)		Frequency	E Total. dB(dB)
lz	-2.23		. ,	
łz	-1.41		2400MHz	3.00
lz	-1.73		2405MHz	2.84
ız	-2.28		2410MHz	2.84
			2415MHz	2.74
lz	-2.16		2420MHz	2.74
łz	-2.25		2425MHz	2.58
łz	-1.92		2430MHz	2.58
łz	-1.91			
lz	-2.50		2435MHz	2.53
lz	-3.09		2440MHz	2.53
			2445MHz	2.71
łz	-3.15		2450MHz	2.71
łz	-3.63		2455MHz	2.89
lz	-4.09		2460MHz	2.89
l z	-4.19			
łz	-4.72		2465MHz	2.95
lz	-5.20		2470MHz	2.95
			2475MHz	2.98
łz	-5.25		2480MHz	2.98
lz	-5.61		2485MHz	2.97
lz	-6.34		2490MHz	2.97
łz	-6.55		2495MHz	
łz	-6.33			2.90
lz	-5.43		2500MHz	2.90
lz	-4.79	Confidentia	al	
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Mobile Consumer

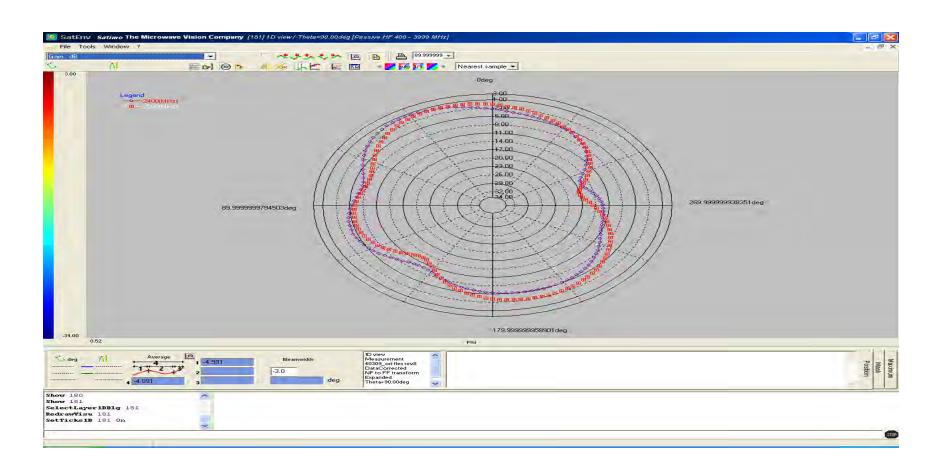
10 March 2009

Azimuth Plane (xy plane) _ WLAN



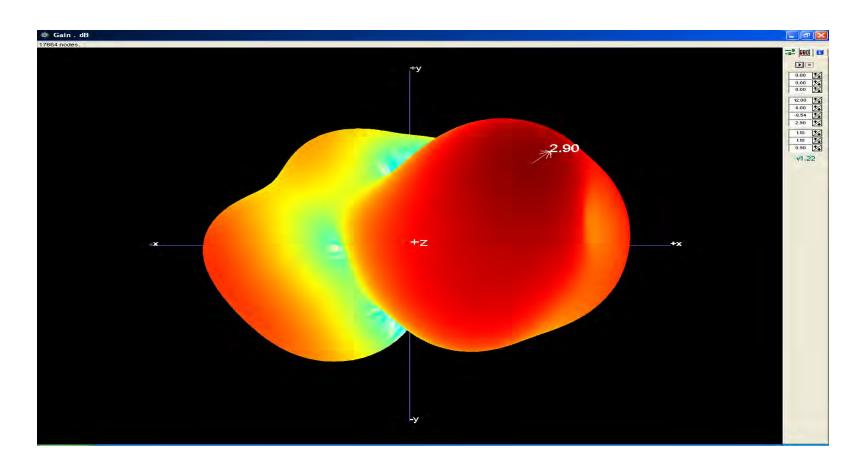
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Azimuth Plane (xy plane) _ Main 2.4 GHz



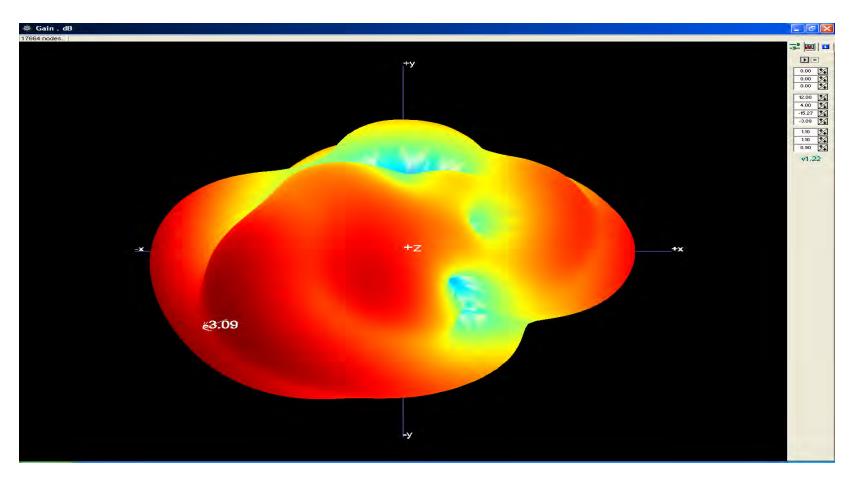
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3D Radiation Pattern – Freq. = 2.4 GHz



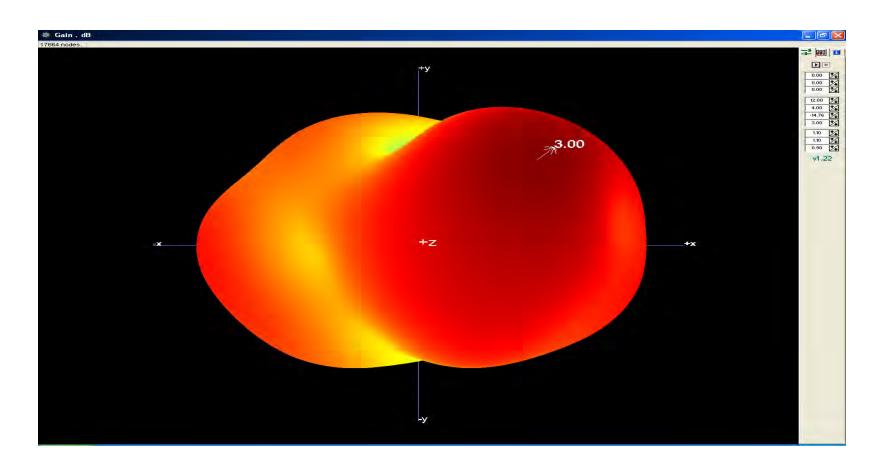
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3D Radiation Pattern – Freq 5.12 GHz



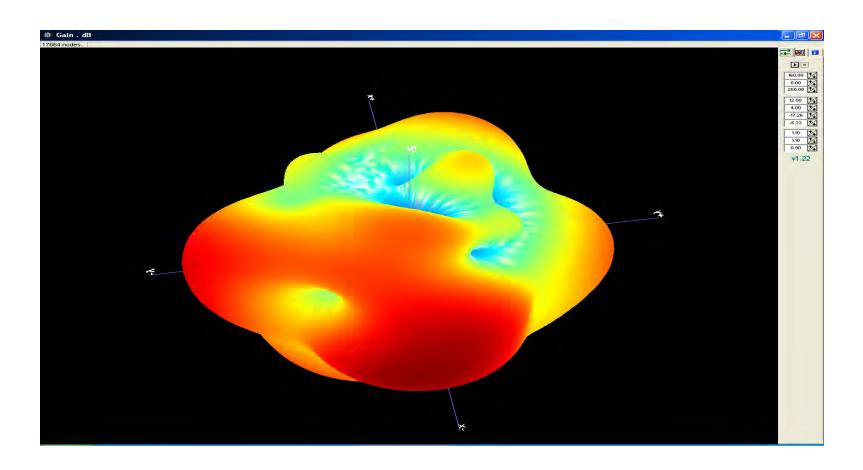
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3D Radiation Pattern – Freq. = 2.5 GHz



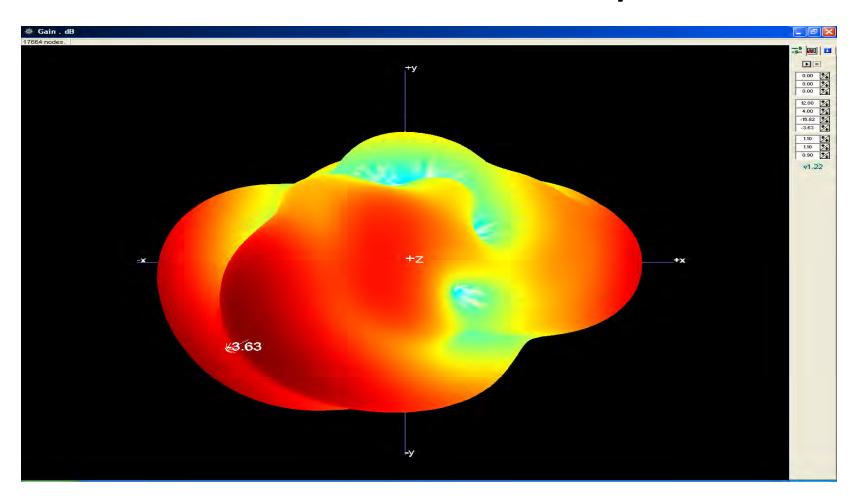
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3D Radiation Pattern – Freq 5.84 GHz



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3D Radiation Pattern – Freq 5.24 GHz



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