



Specification

# SPECIFICATION

Model No. : **WMA.01**

Part No. : **WMA.01. 301151**

Product Name : **Trinity 3dBi 2.4~2.5GHz MIMO Antenna  
Wifi ISM Bands/ZigBee/WLAN/Bluetooth**

Features : **Connectors x 3 RP-SMA(M) - 3M RG-174  
Omni-directional  
Flexible Mounting**

- Desktop
- Wallmount
- Magnet Mount
- Adhesive Mount

IEEE.802.11/IEEE.802.15  
IP65 Water Resistant  
**RoHS Compliant**



Version	Date	Page	Revision Description	Prepared	Approved
A	June 30th 2010	All	New Product	TW Product Centre	Michael Ryan



Specification

1.0 Introduction

The Trinity MIMO antenna is a powerful 3\*3 3dBi External 2.4GHz omni-directional antenna to enable high-speed data throughput. 3 individual high-gain elements ensure maximum coverage through diversity. Desk-top placement, magnet-mounting, wall-mounting, adhesive mounting are all options. The individual antennas can articulate horizontally and vertically for best signal reception depending on mounting conditions. The cables are shipped bonded together for easy cable management. The standard connector option of RP-SMA plugs into AP router equipment. Other cable and connector options are available on request.

DESKTOP / MAGNET MOUNT



Standard Desktop and Magnet Mount Configuration



Dipole Elements can be positioned



Magnets On Base



Specification

# Wall-mount



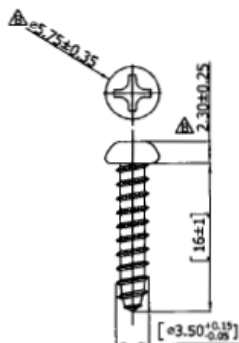
Standard Configuration



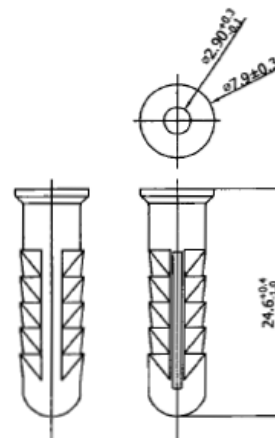
Alternative Configuration



Screw-Holes On Base for Easy Wall-Mounting  
(3M Adhesive can be supplied as option)



1. Screw - Cross Pan Head For Plastic Tapping Thread ( $\varnothing 3.5 \times 16L$ )



2. Wall Plug - Plastic



Specification

**2.0 Electrical Specifications**

Parameter	Specification
Frequency Range	2.4~2.5GHz
Impedance	50Ω
VSWR	1.92:1 Max.
Return Loss	-10dB Max
Radiation Pattern	Omni
Gain(Peak)	3dBi (excluding cable loss)
Cable Loss	5.7dB Max.
Polarization	Linear; Vertical
Power Handling	10W
Cable	RG-174 Coaxial cable
Connector	3 x SMA Plug Reverse

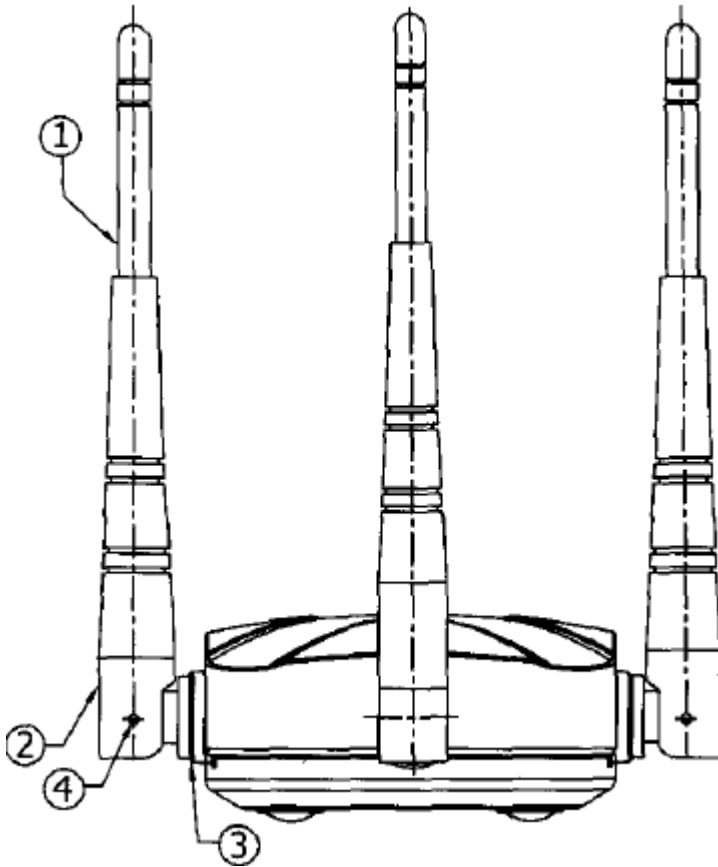
**2.1 Mechanical Specifications**

Parameter	Specification
Base Dimensions	93mm Width * 105mm Length * 31mm Height
Antenna Elements	132mm Length
Antenna Body	TPE
Antenna Base	PC
Antenna Base	PBT
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Color	Black



Specification

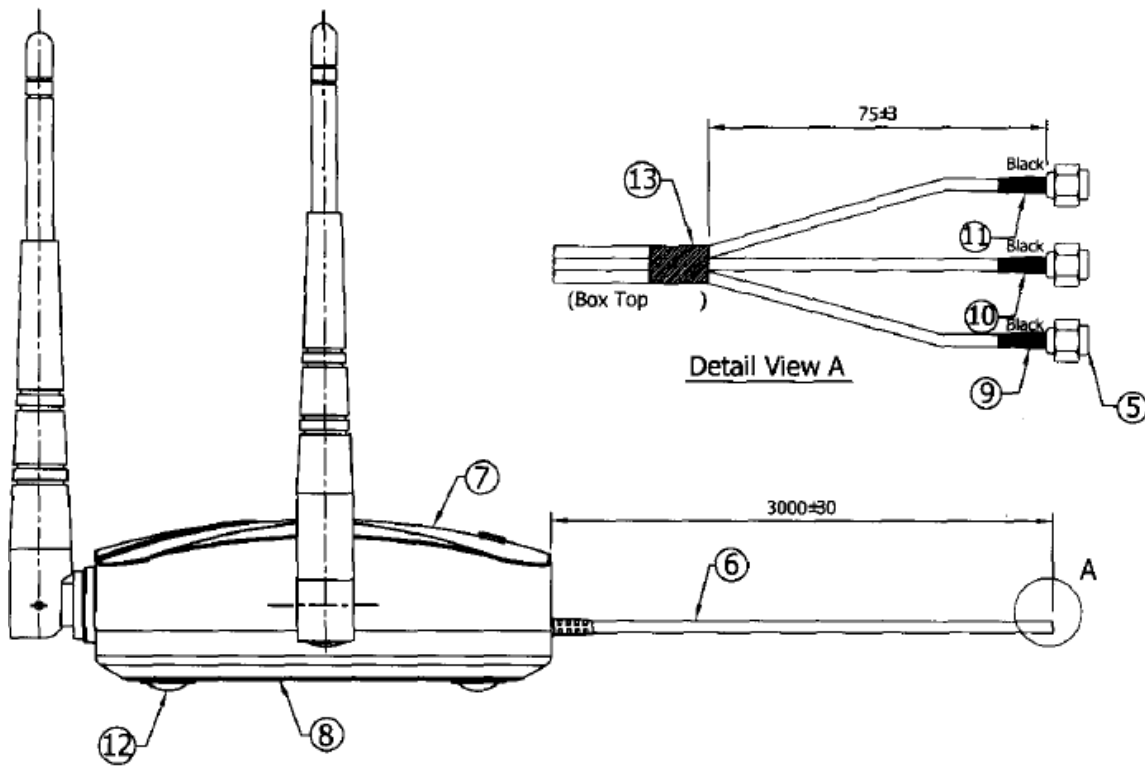
3.0 Technical Drawing



1: Antenna Cap	TPE; Color: Black
2: Upper Fixed Base	PC; Color: Black
3: Bottom Fixed Base	PBT; Color: Black
4: Rivet	POM; Color: Black



Specification



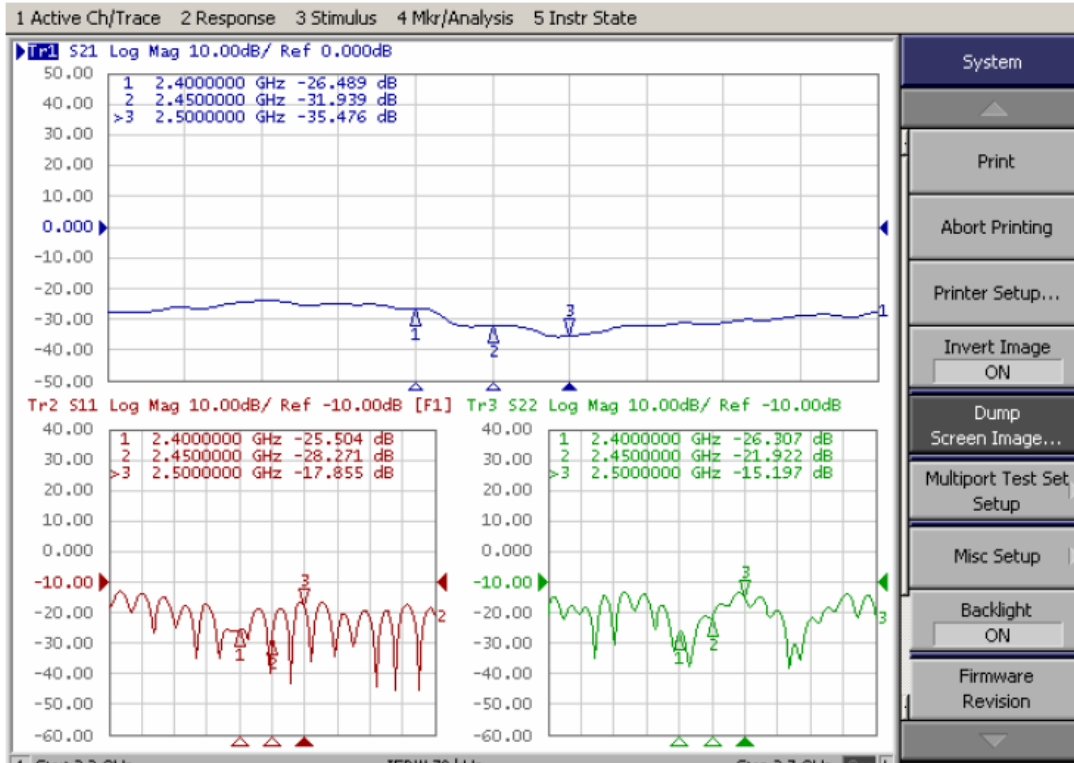
5	Connector	RP-SMA(M)
6	Cable	RG-174
7	Box Top	ABS; Color: Black
8	Box Bottom	ABS; Color: Black
9	Tube	Heatshrink Tube: Black
10	Tube	Heatshrink Tube: Black
11	Tube	Heatshrink Tube: Black
12	Foot	8*2.1T Rubber; Black
13	Tube	Heatshrink Tube: Black



Specification

### 4.0 Performance

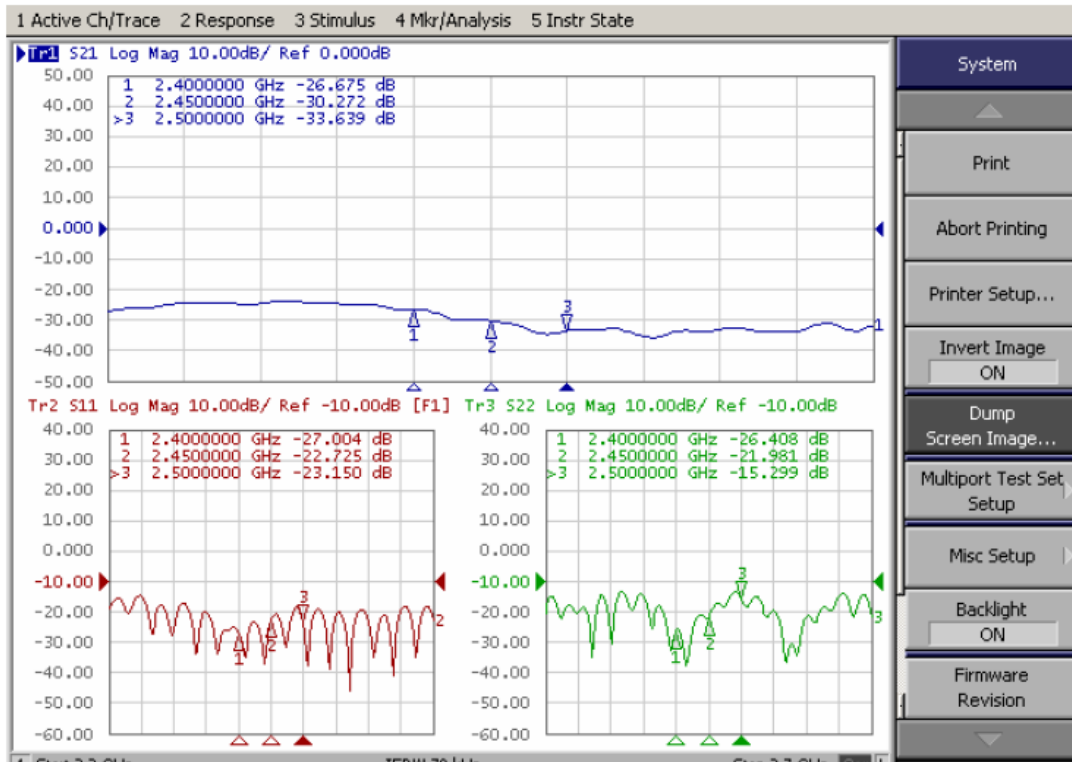
L-M





Specification

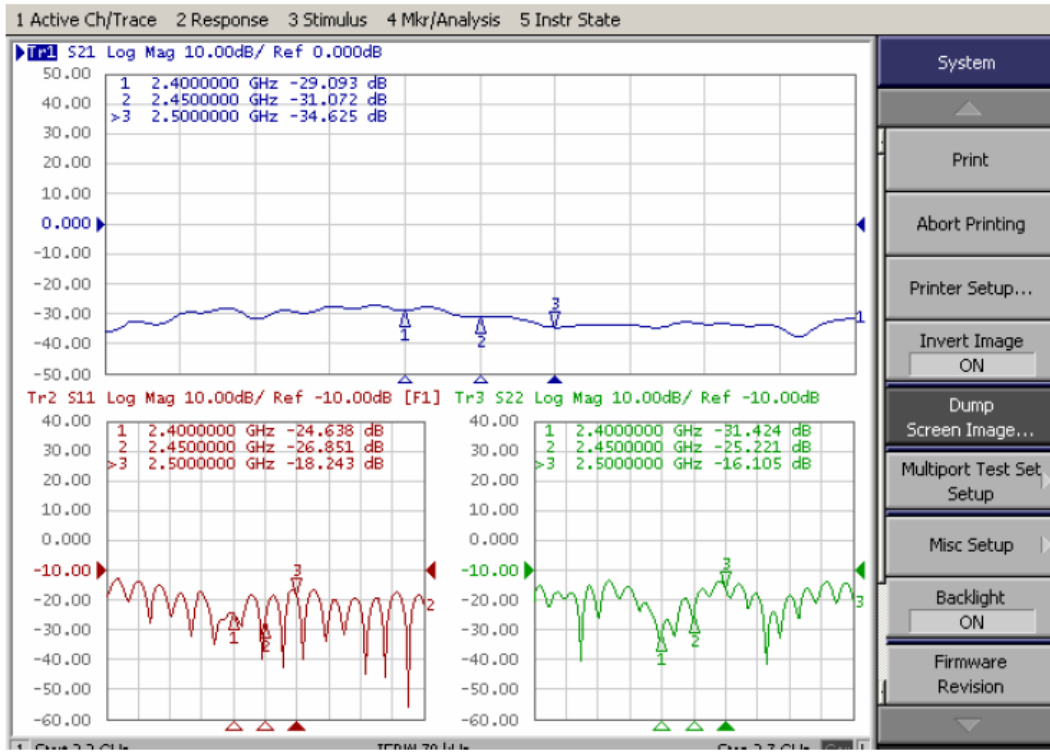
R-M





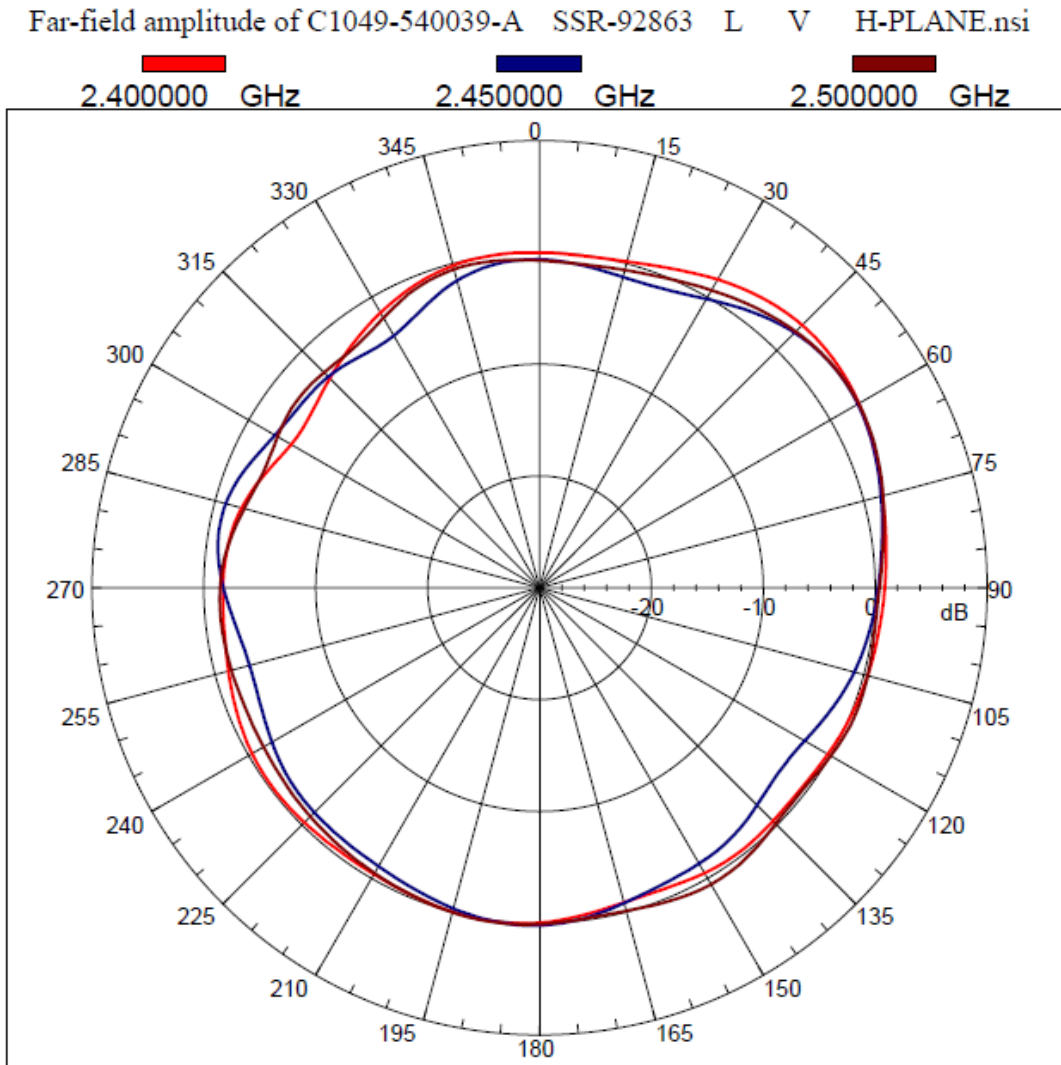
Specification

L-R



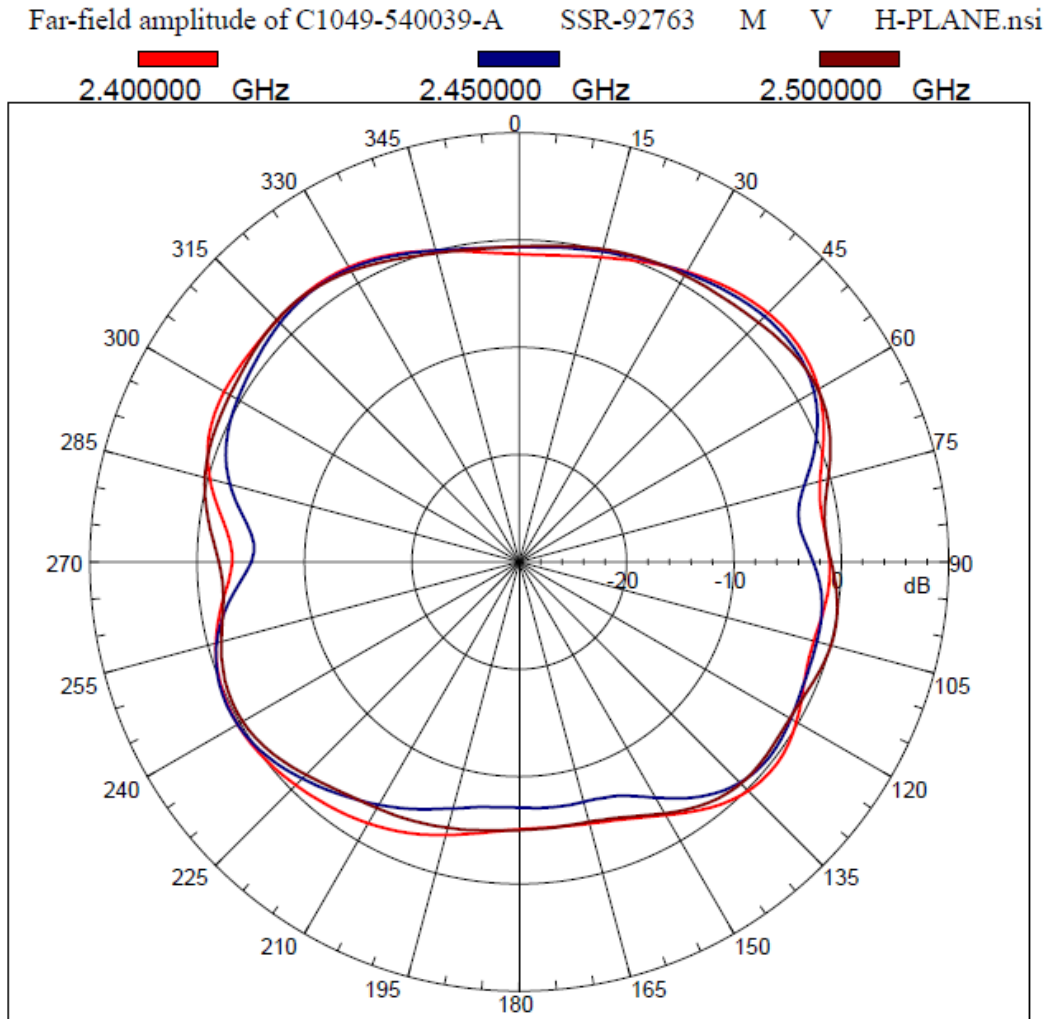


Specification





Specification





Specification

