

2.4&5.8GHz Dipole ANT Specification

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1. Introduction



Product Name: 2.4&5.8GHz Dipole Ant

Frequency: 2.4~2.5&5.1~5.8GHz

This antenna support 2.4&5.8GHz dual band frequency. Designed by dipole antenna theory Almost Omni-directional radiation for far field.

Good port matching , low return loss , high efficiency can make communication more easily.

1.1 Features

- Operating Frequencies: 2400~2500MHz/5100~5800MHz
- Radiation: Omni-directional radiation
- Modulation support: WLAN/BT/ZIGBEE
- Connect to host through IPEX connectors

1.2 Applications

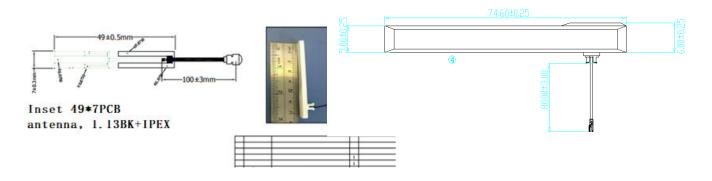
- IP Camera
- STB
- Smart TV
- Screen thrower
- Intelligent home furnishing
- Other devices which need to be supported by wireless network



1.3 General Specifications

Product Name	2.4&5.8GHz Dipole antenna	
Frequency	2400~2500MHz/5100~5800MHz	
Modulation support	WLAN/BT/ZIGBEE	
VSWR	<=2	
Return loss	<=-8dB	
Radiation	Omni-directional	
Gain (peak)	3dBi	
Polarization	Linear	
Admitted Power	2W	
Connector	IPEX1	
Efficiency	40%~70%	
Cable	RF1.13 black cable and length is 72 mm	
Antenna type	External rubber duck antenna	

2. Mechanical Specifications



Antenna outer covered by a white blade shape plastic, and rotation shaft fixed on product shell, Then through IPEX connector connect main board RF signal port.

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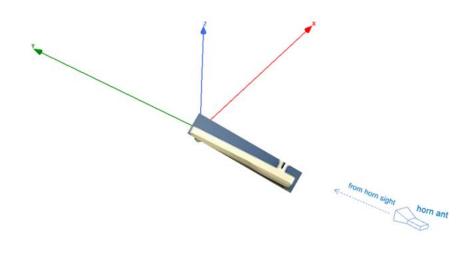
3. S-parameter



Return loss:	<=-8dB
VSWR:	<=2



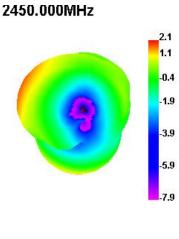
4. Radiation parameter

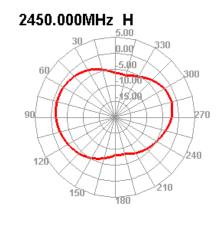


4.1 Gain and efficiency

Frequency	Gain	efficiency
2400~2500MHz	2.5dBi	40%~70%
5100~5800MHz	3.0dBi	40%~70%

4.2 Radiation Pattern

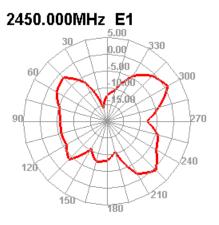




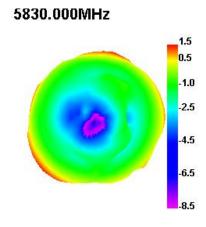
3D radiation



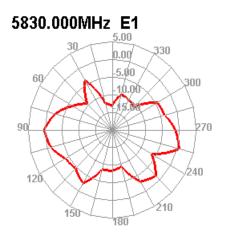




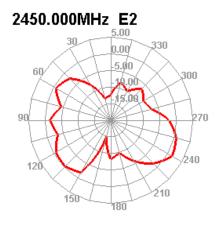




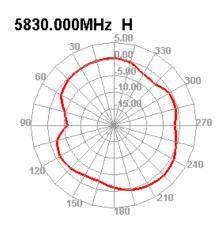
3D radiation







YZ plane



XY plane

