

# 2.4GHz Dipole FPC ANT Specification

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## **Revision History**

Revision	Summary	Release Date
1.0	First release	2023-07-30

Product Name: 2.4GHz Dipole FPC Ant					
Frequency: 2.4~2.5GHz					
Revision: V1.0					
Customer Approval:					
Company:					
Title:					
Signature:		Date:			
BL-link Approval:					
Title:					
Signature:		Date:			



#### 1. Introduction



This antenna support 2.4GHz 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
- Radiation: Omni-directional radiation
- Modulation support: WLAN/BT/ZIGBEE
- Connect to host through IPEX connectors

#### 1.2 Applications

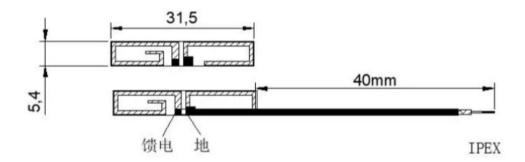
- IP Camera
- STB
- Smart TV
- · Screen thrower
- Intelligent home furnishing
- Other devices which need to be supported by wireless network



#### 1.3 General Specifications

Product Name	2.4GHz Dipole FPC antenna	
Frequency	2400~2500MHz	
Modulation support	WLAN/BT/ZIGBEE	
VSWR	<=2	
Return loss	<=-8dB	
Radiation	Omni-directional	
Gain (peak)	4dBi	
Polarization	Linear	
Admitted Power	2W	
Connector	IPEX1	
Efficiency	40%~70%	
Cable	RF Φ1.13 cable and length is 40 mm	

## 2. Mechanical Specifications



Antenna made by FPC material and fixed to customer's product shell by bottom side adhesive, Then through IPEX1 connector connect main board RF signal port.

RF Φ1.13 cable length 40mm.



## 3. S-parameter



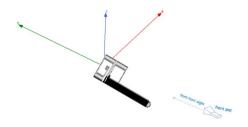
Return loss: <=-8dB

VSWR:

<=2



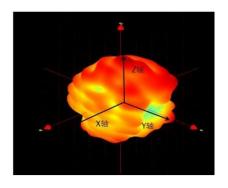
## 4. Radiation parameter



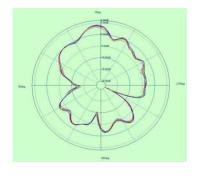
## 4.1 Gain and efficiency

Frequency	Gain	efficiency
2400~2500MHz	1~4dBi	45%~70%

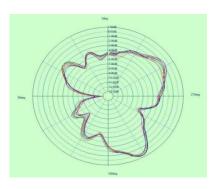
### 4.2 Radiation Pattern



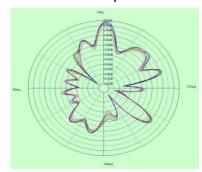
2G 3D radiation



2G XZ plane



2G XY plane



2G YZ plane