



TX2400-FPC-6615 Antenn

2.4GHz FPC built-in antenna

IPEX Generation I interface



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Chapter One: Product Introduction

The TX2400-FPC-6615 is a 2.4GHz FPC built-in antenna with dimensions of 66mm × 15mm and an IPEX-1 interface. It is suitable for various 2.4GHz terminal devices (such as mobile phones, wireless network cards, routers) and wireless communication modules. The antenna is compact, reliable in performance, and can be installed inside the module for use, providing stable signals.

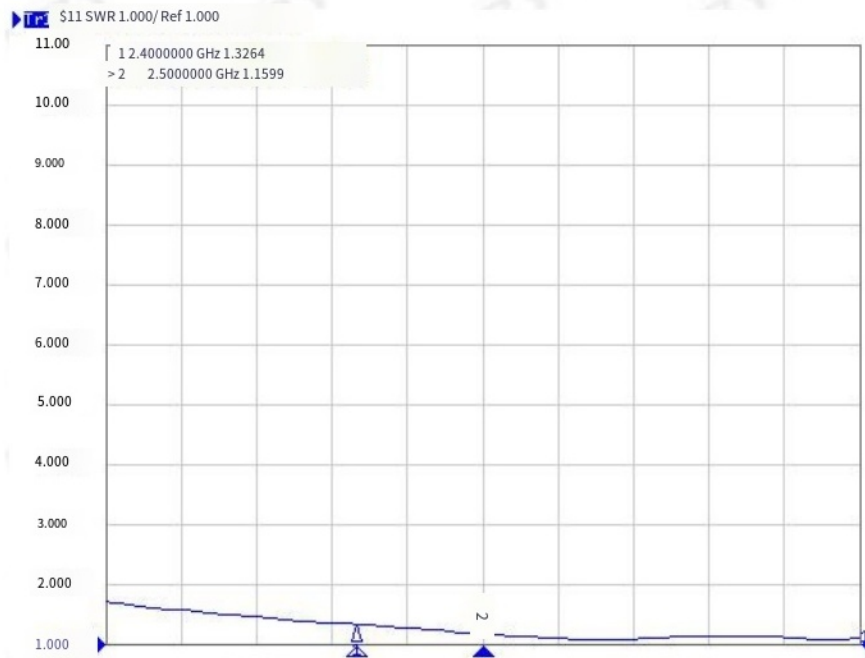
Chapter Two Specifications and Parameters

Electrical parameters	
Frequency range	2.4GHz
	2.4-2.5GHz
Antenna gain	3.5dBi
Voltage standing wave ratio	1.5 or less
Polarization direction	Line polarization
Radiation direction	Omnidirectional
Input impedance	50 Ω
Power capacity	2W
Other parameters	
Product size	66mm × 15mm
Overall weight	1g
Feeder material	RF1.13
Feeder length	120mm (customizable)
Antenna material	FPC
Interface mode	IPEX-I generation interface
Operating temperature	- 30 °C ~ + 75 °C
Storage temperature	-30°C~+75°C

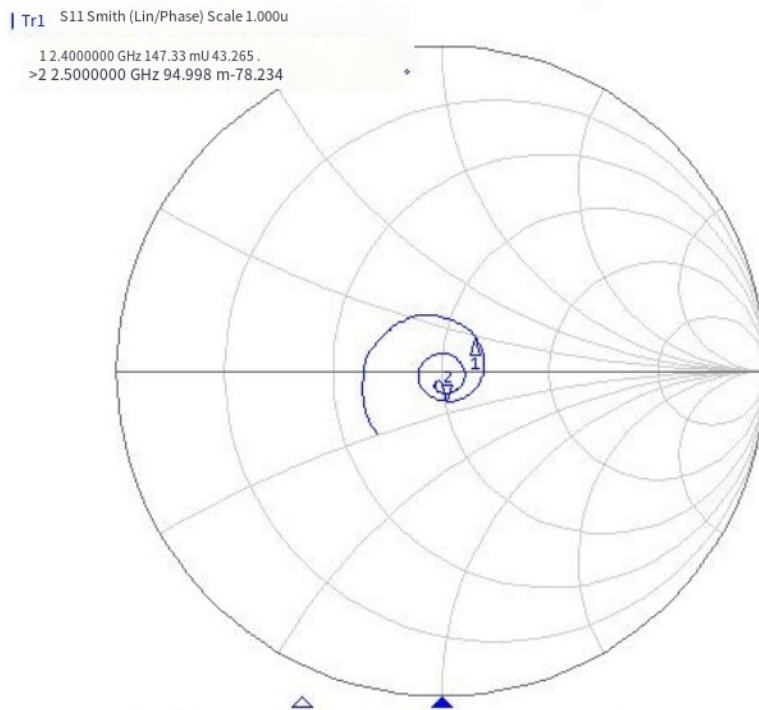


Chapter Three Antenna Characteristics

Voltage Standing Wave Ratio (VSWR)



Smith chart



Chapter Four Common Questions

The antenna frequency must match that of the wireless device; otherwise, the communication effect will be poor.

The lower the communication frequency, the longer the wavelength and the better the diffraction performance.

When there are obstacles to direct communication, the communication distance will be correspondingly reduced.

Please pay attention to the radiation direction of the antenna. Incorrect installation direction of the antenna will result in a short transmission distance.

The ground absorbs radio waves, and the test effect is poor when close to the ground. It is recommended to increase the height.

The sea water has a very strong ability to absorb radio waves, so the test results near the sea are not good.

If there are metal objects near the antenna or it is placed inside a metal casing, the signal attenuation will be very severe.

Poor impedance matching between the antenna and the communication equipment will result in poor communication performance.

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