

TX4G-PCB-6613 User Manual

4G/LTE PCB Built-in Antenna IPEX-I Interface





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1 Introduction

TX4G-PCB-6613 is a 4G/LTE frequency band PCB built-in antenna, size 66mm×13mm, IPEX-I interface, suitable for various 4G/LTE frequency equipment (mobile phone, SIM card, router), wireless module, with small size, can be builded in the module, the signal is stable.

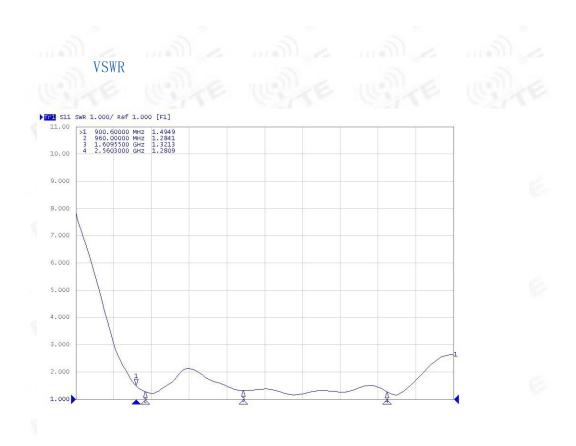
2 Parameters

Electrical parameters	
Frequency	4G/LTE
	800-960MHz;1710-2700MHz
Antenna gain	5dBi
Voltage standing wave ratio	≤1.5
Polarization direction	Linear polarization
Radiation direction	Omnidirectional
Input resistance	50Ω
Power capacity	5W
Otl	ner parameters
Product size	66mm×13mm
Weight	2g
Feeder material	RF1.13
Length of the feeder	150mm (customizable)
Antenna material	PCB
Interface	IPEX-1
Operating temp.	-40°C∼+85°C
Storage temp.	-40°C∼+85°C

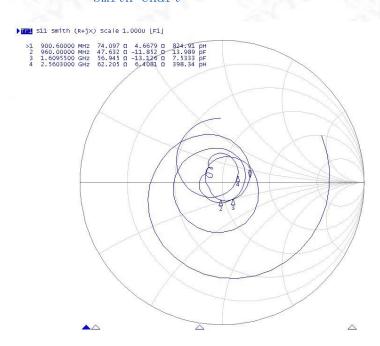




3 Antenna features



Smith chart





4 FAQ

- The antenna frequency must match the frequency of the wireless device, otherwise the communication effect will be poor;
- The lower the communication frequency and the longer the wavelength, the better the diffraction performance;
- When there is a straight-line communication obstacle, the communication distance will be attenuated accordingly;
- Please pay attention to the antenna radiation direction, the incorrect installation direction of the antenna leads to a short transmission distance;
- The ground absorbs radio waves, and the test result near the ground is poor. It is recommended to increase the height;
- Sea water has a strong ability to absorb radio waves, so the seaside test results are not good;
- If there is a metal object near the antenna or placed in a metal shell, the signal attenuation will be very serious;
- The poor impedance matching between the antenna and the communication device will lead to poor communication effects.

About us

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