



TX4G-PCB-6613 User Manual

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



Contents

Disclaimer.....	4
1 Introduction.....	5
2 Parameters.....	5
3 Antenna features.....	6
4 FAQ.....	7
About us.....	7

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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.

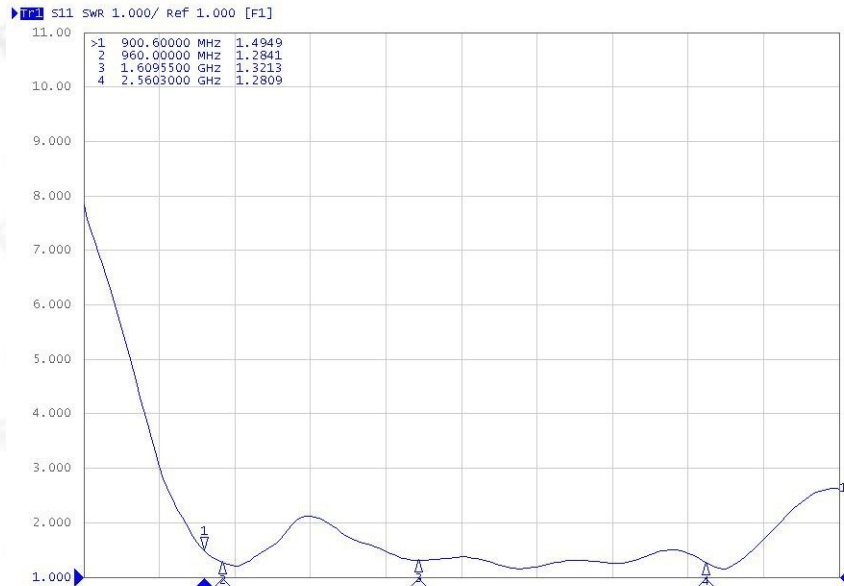
2 Parameters

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
Other 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

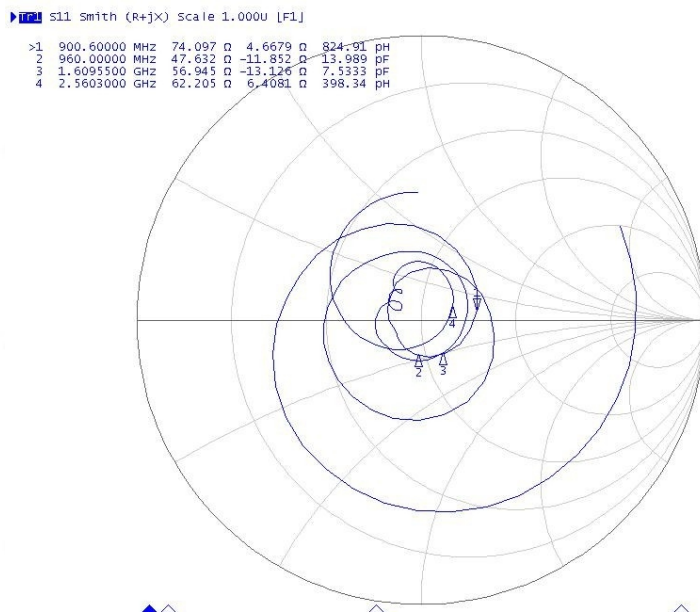


3 Antenna features

VSWR



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

Technical support: support@cdebyte.com

Documents and RF Setting download link: www.ebyte.com

Thank you for using Ebyte products! Please contact us with any questions or suggestions: info@cdebyte.com

Phone: +86 028-61399028

Web: www.ebyte.com

Address: B5 Mould Park, 199# Xiqu Ave, High-tech District, Sichuan, China



Chengdu Ebyte Electronic Technology Co.,Ltd.