TXGB-FPC-3615 User Manual

GPS+BDS FPC Built-in

Antenna IPX interface



Chengdu Ebyte Electronic Technology Co.,Ltd.

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Contents

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

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1 Introduction

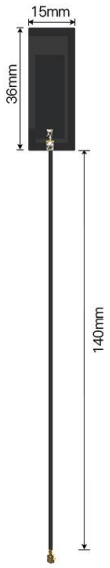
TXGB-FPC-3615 is a FPC built-in antenna for GPS+ BDS frequency band. The antenna, with a size of 36*15mm, a feeder of 140mm and IPX-1 interface, is suitable for all kinds of GPS frequency band wireless devices, such as automobile 4S shops, automobile dealers, bus station callers, driving schools, taxi companies and individuals, DVD navigation, automobile maintenance, etc.

2 Parameters

Electrical parameters	
Center frequency	GPS
Antenna bandwidth	1575.42MHz
Antenna gain	3dBi
Voltage standing wave ratio	≤ 1.5
Polarization direction	Vertical polarization
Radiation direction	Omnidirectional
Input resistance	50Ω
Power capacity	2W
Other Parameters	
Product size	36mm*15mm
Weight	1g
Antenna material	FPC
Feeder length	140mm(customizable)
Interface	IPX-1
Operating temp.	-40℃～+85℃
Storage temp.	-40℃～+85℃



IPEX-1



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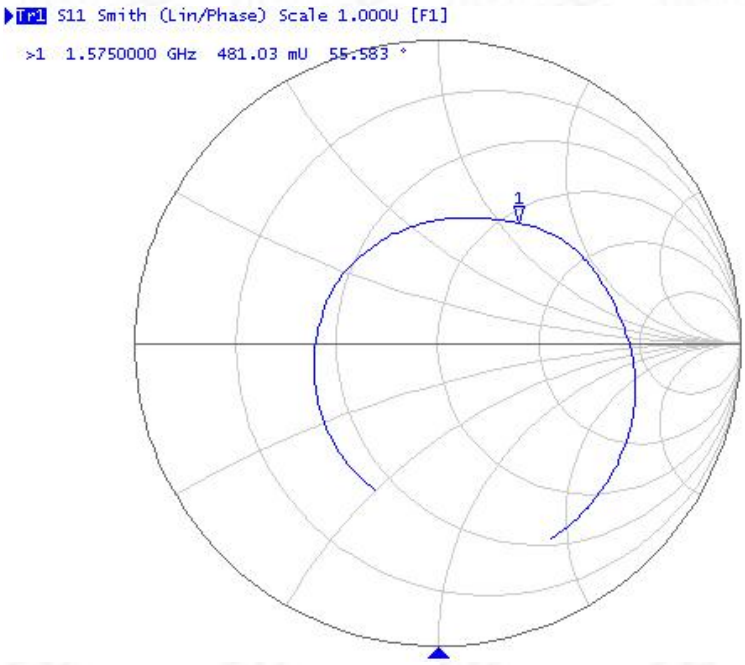
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3 Antenna features

VSWR



Smith Chart



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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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