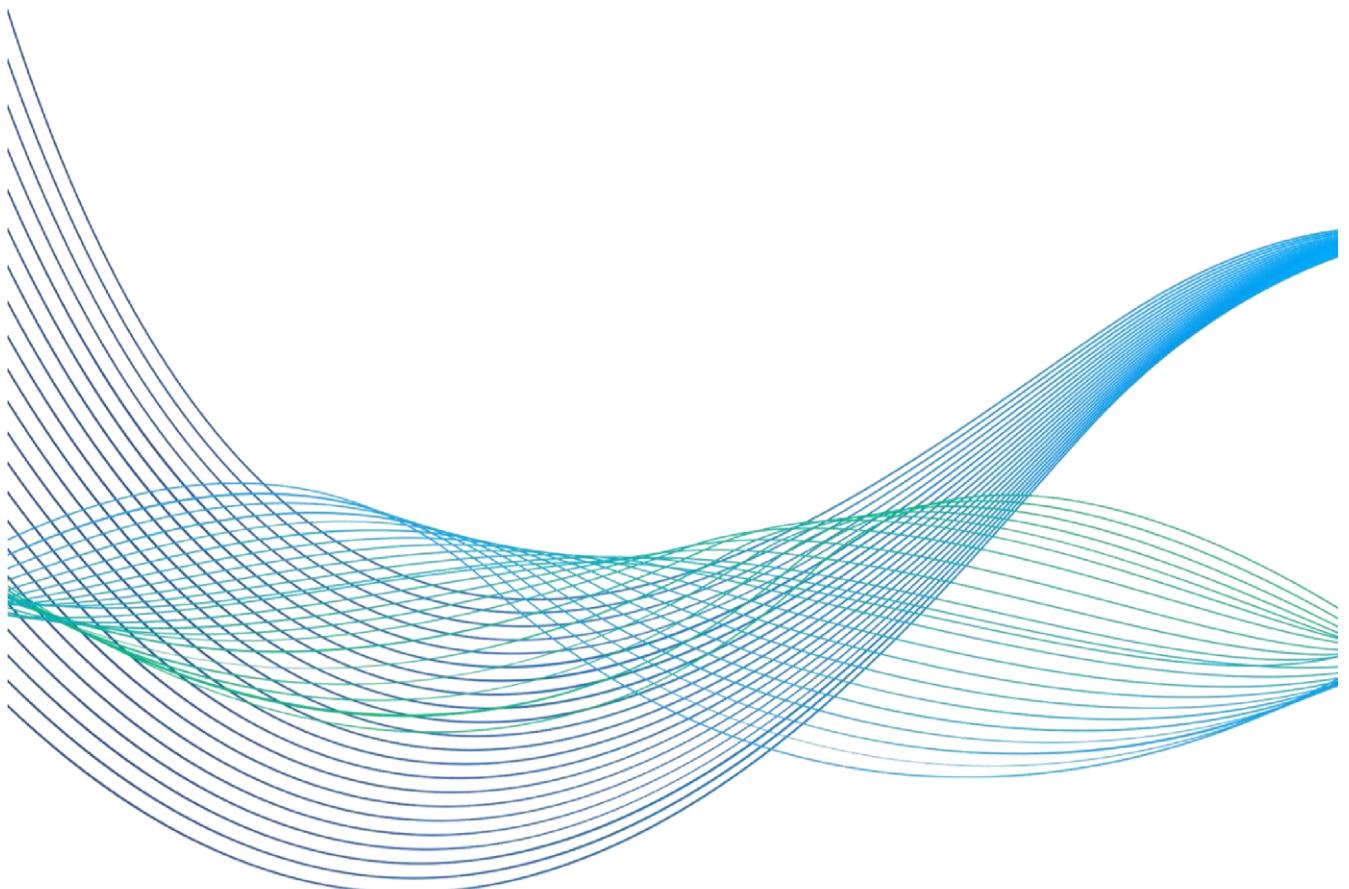


# TXGN-FPC-3308 Antenna specification sheet

NB/GSM FPC Built in antenna

IPEX-I generation



## Chapter 1 Product Introduction

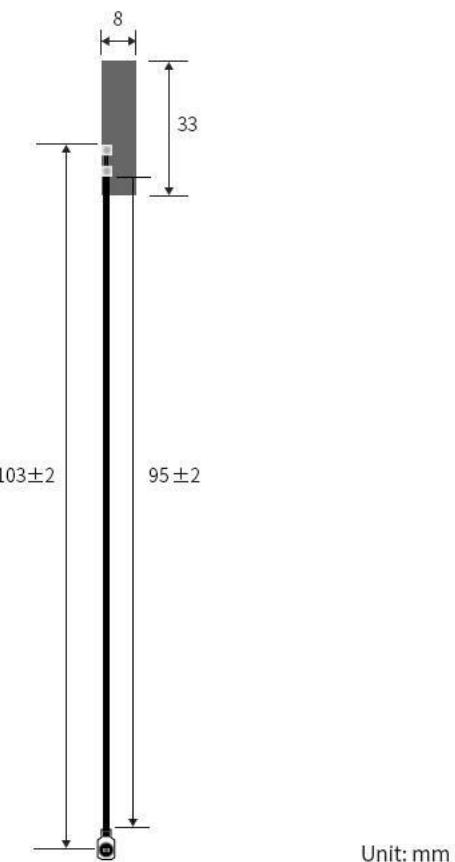
TXGN-FPC-3308 is an NB/GSM band FPC built-in antenna, antenna size 33mm×8mm, IPEX-I. generation interface, suitable for various NB/GSM band terminal equipment (mobile phones, wireless network cards, routers), wireless communication modules, etc., the antenna is small in size, reliable in performance, built-in module installation and use, stable signal.

## Chapter 2 Specifications

Electrical parameters	
Frequency range	NB/GSM system
	824–960 MHz; 1710–1990 MHz
Antenna gain	3 dB
VSWR	≤1.5
Direction of polarization	Linear polarization
Radiation direction	Omnidirectional
Input impedance	50 Ω
Power capacity	2 watts
Other parameters	
Product dimensions	33 mm× 8 mm
Overall weight	1 gram
Feeder material	RF1.13 series
Feeder length	95mm (customizable)
Antenna material	FPC SSD
Interface mode	IPEX-I. generation interface
Operating temperature	-30° C~+75° C
Storage temperature	-30° C~+75° C

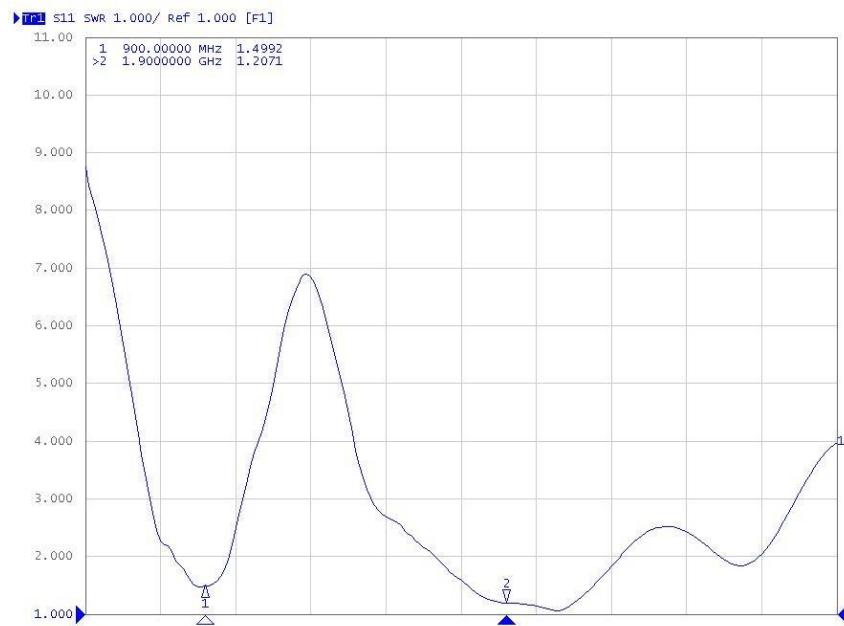


## Chapter 3 Product Dimensions

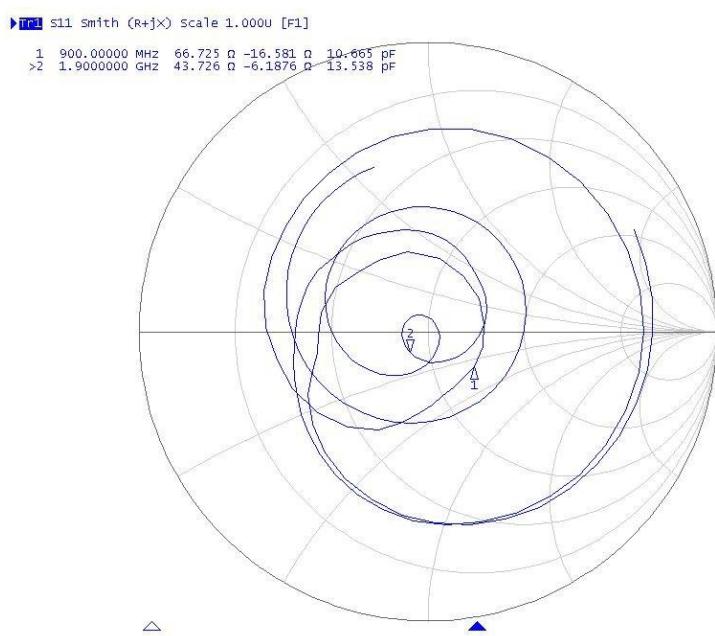


## Chapter 4 Antenna Characteristics

### Voltage Standing Wave Ratio (VSWR)



Smith chart



## Chapter 5 Frequently Asked Questions

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

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