

DJI Antenna Datasheet
RC520 antenna

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	RC520 Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz 5.725~5.85GHz		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	1.5dBi@2.4~2.483GHz sdr 0dBi @5.15~5.25GHz sdr 1.5dBi@5.725~5.875GHz sdr		
7	Efficiency	$\geq 50\%$ SDR		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	Dipole		

2、 Antenna Return Loss/VSWR

2.1 SDR antenna return loss



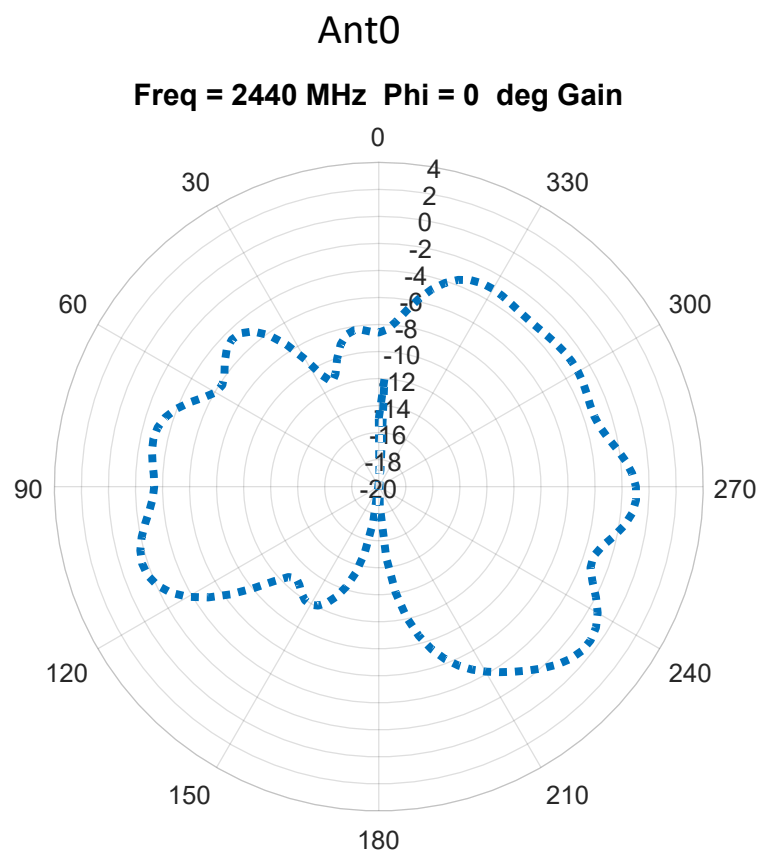
3、 Antenna Gain

3.1 sdr

Band	Frequency	Ant0		Ant1	
		Gain (dBi)	Efficiency (%)	Gain (dBi)	Efficiency (%)
2.4G	2400MHz	1.4	56.6%	1.2	46.8%
	2440MHz	1.5	59.4%	1.3	53.1%
	2480MHz	1.5	54.3%	1.2	50.5%
5.8G	5725MHz	1.4	33.3%	1.5	56.5%
	5800MHz	1.5	35.1%	1.4	53.3%
	5850MHz	1.4	38.4%	1.4	47.5%
5.2G	5150 MHz	-0.2	45.7%	-0.2	53.4%
	5200 MHz	-0.1	43.6%	-0.3	50%
	5250 MHz	0	46.8%	0	59.4%

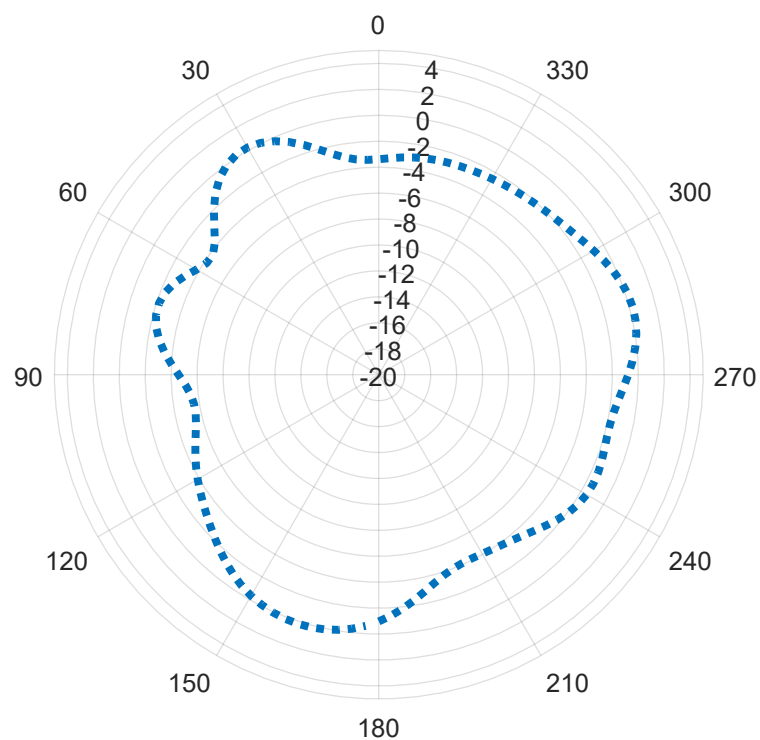
4、 Radiation Pattern

4.1 sdr antenna 2.4G radiation pattern

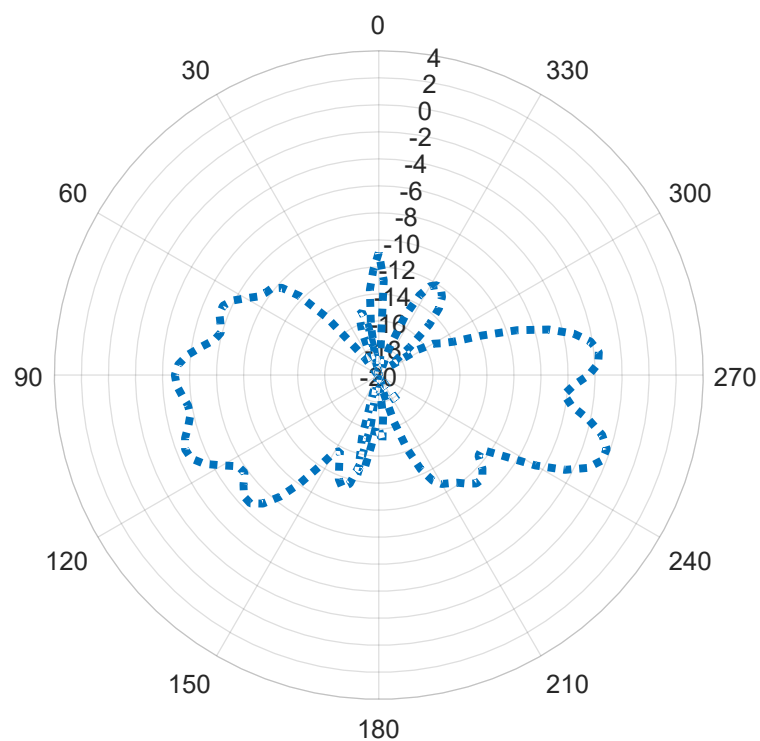




Freq = 2440 MHz Theta = 90 deg Gain

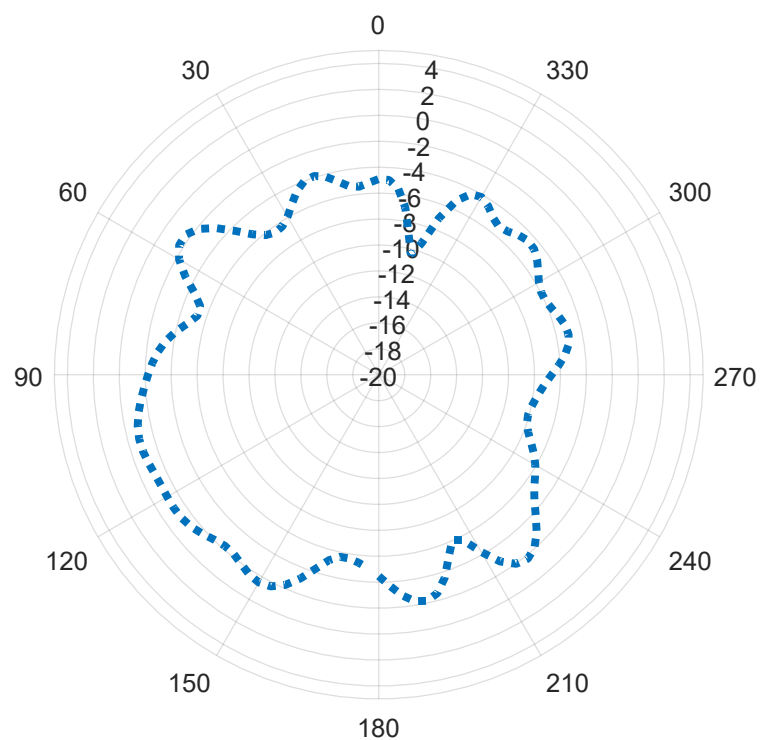


Freq = 5200 MHz Phi = 0 deg Gain

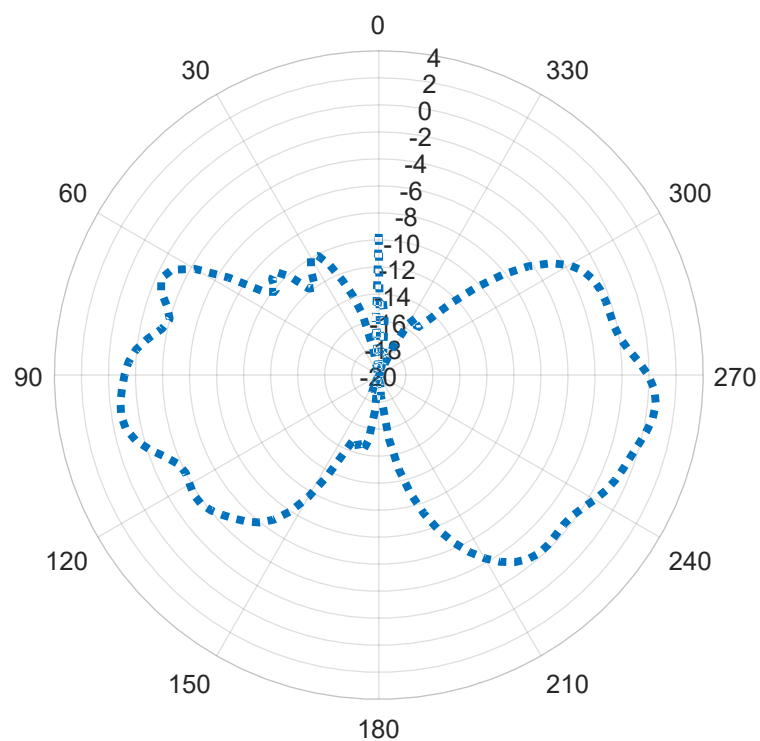




Freq = 5200 MHz Theta = 90 deg Gain

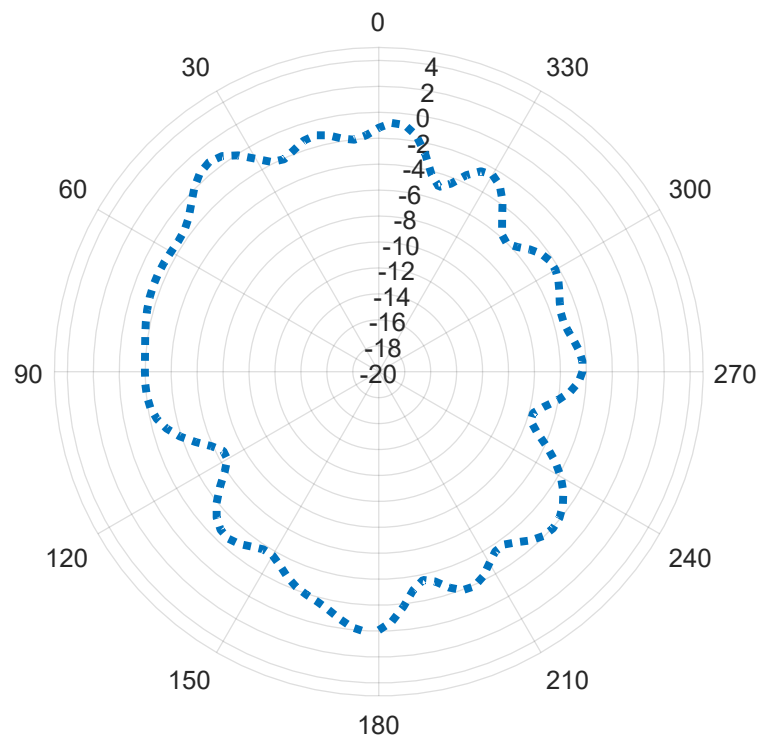


Freq = 5800 MHz Phi = 0 deg Gain





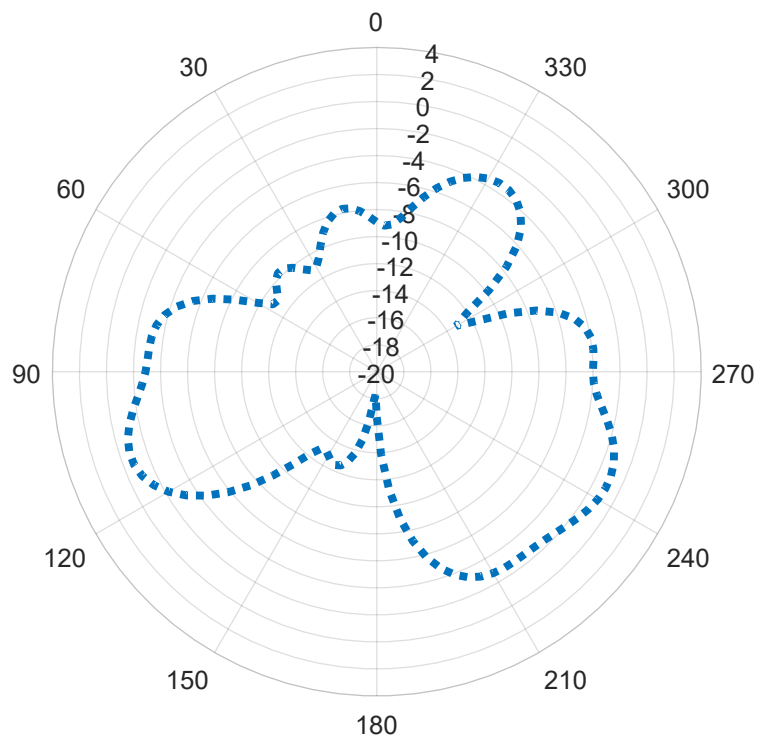
Freq = 5800 MHz Theta = 90 deg Gain



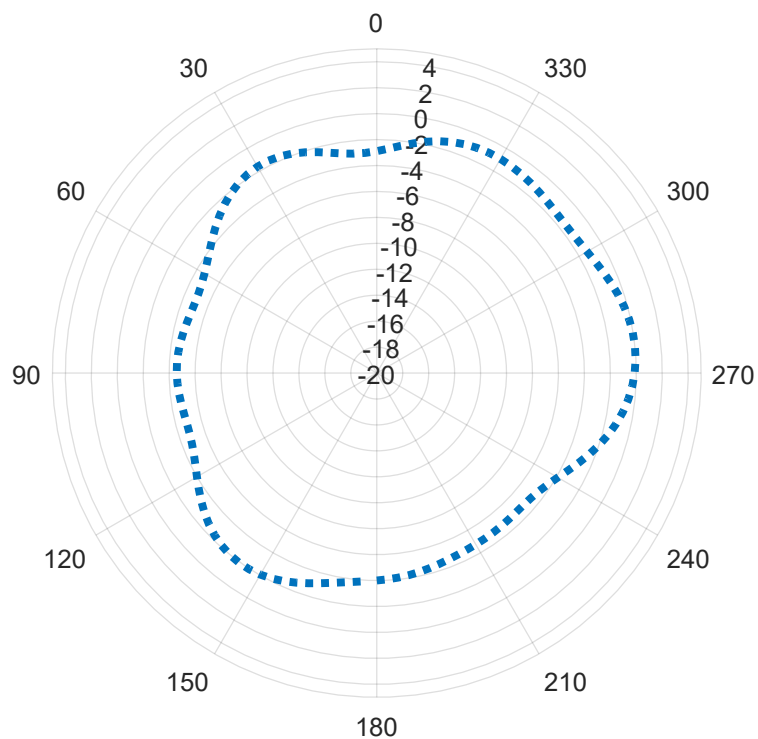
Ant1



Freq = 2440 MHz Phi = 0 deg Gain

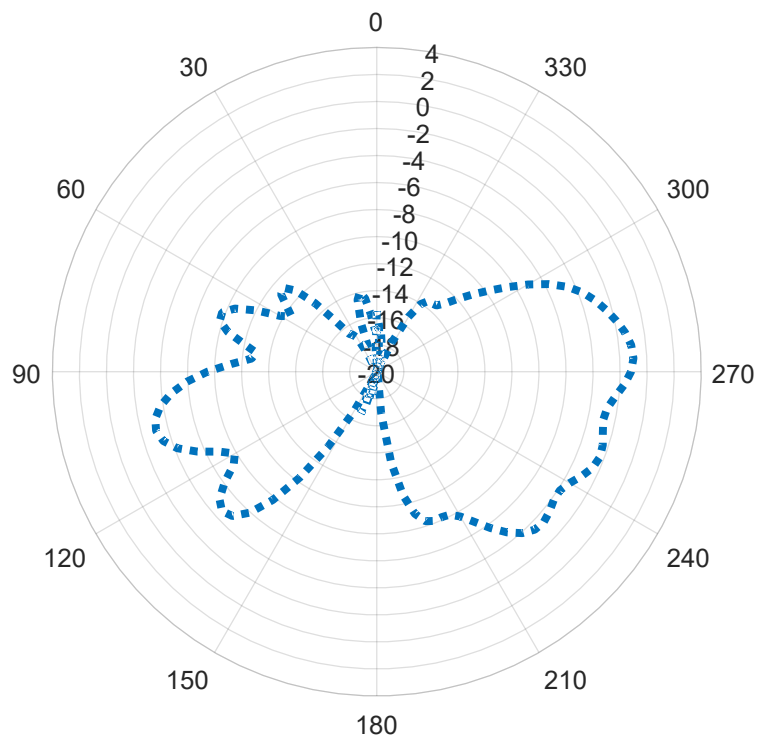


Freq = 2440 MHz Theta = 90 deg Gain

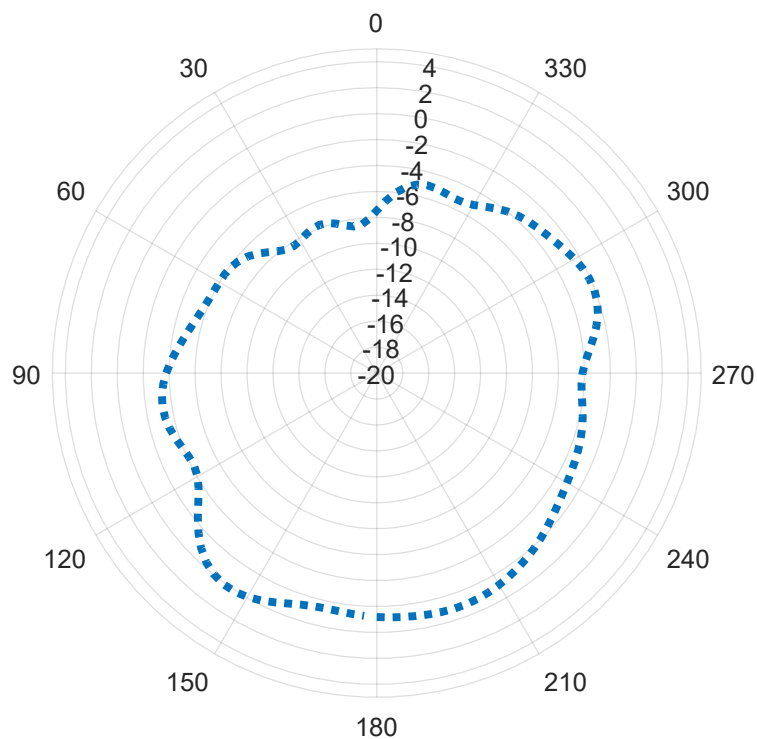




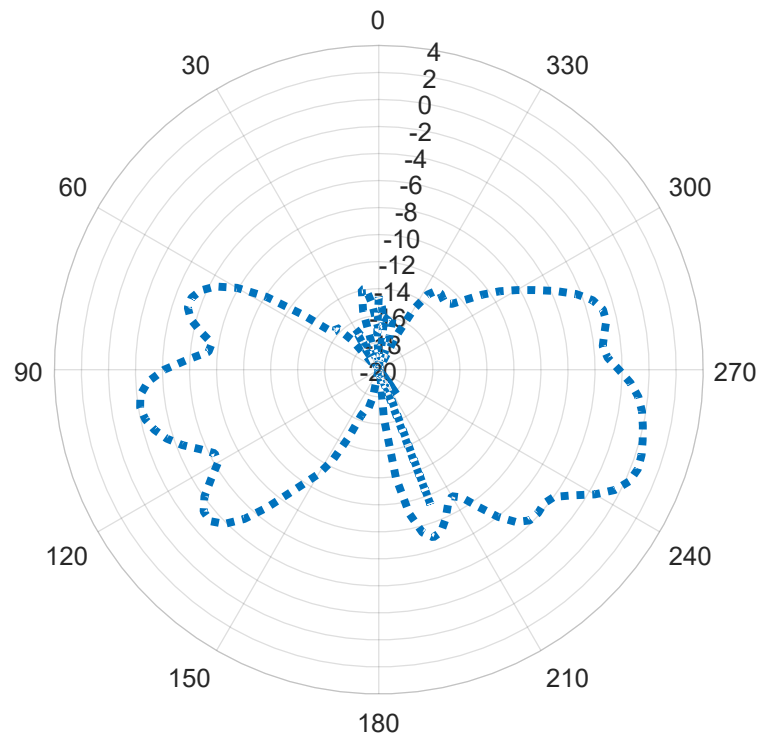
Freq = 5200 MHz Phi = 0 deg Gain



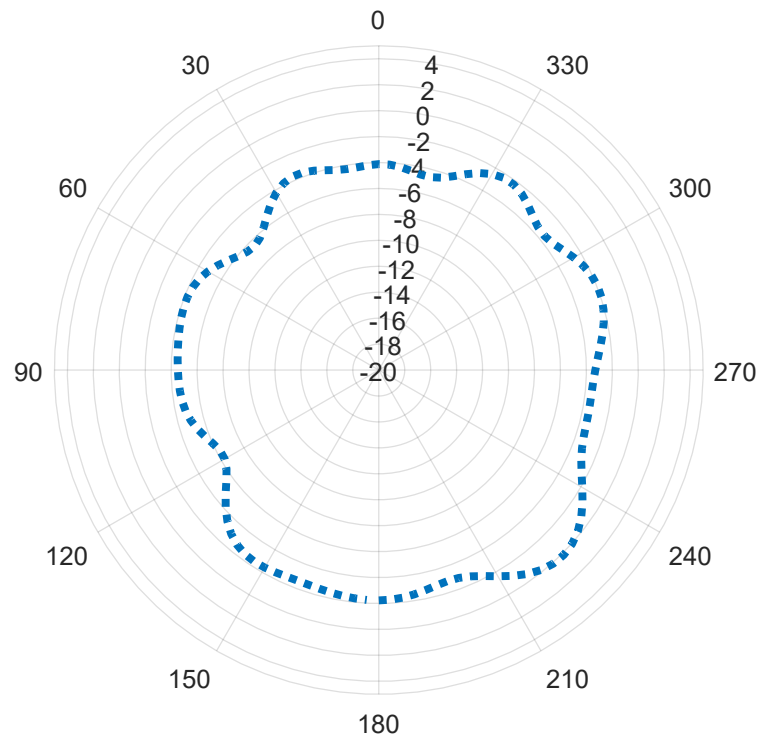
Freq = 5200 MHz Theta = 90 deg Gain



Freq = 5800 MHz Phi = 0 deg Gain



Freq = 5800 MHz Theta = 90 deg Gain



5、 Structure drawing



5.1 SDR antenna

Ant0

Ant1



Name of the antenna manufacturer: INPAQ Technology Suzhou CO.Ltd

Address of the antenna manufacturer: No.5 Chunqiu Road, Xiangcheng
District, Suzhou, Jiangsu Province

Website of the antenna manufacturer: www.inpaq.com