

JXB3633-66 Antenna Specification

Item	Details
Manufacturer Name	Shenzhen Jingxun Technology Co., Ltd.
Manufacturer Address	3/6F,A5 Building Zhiyuan Communi No.1001,Xueyuan Road Nanshan District,Shenzhen City
Product Type	2.4G On-board PCB Antenna

2. Core Electrical Specifications

Operating Frequency Range: 2400MHz ~ 2480MHz

Antenna Gain: 0.68dBi

Input Impedance: 50Ω

Radiation Characteristic: Omni-directional Radiation

3. Antenna 2D / 3D Radiation Patterns

3.1 2D Radiation Pattern

2D Pattern at 2.4GHz Band

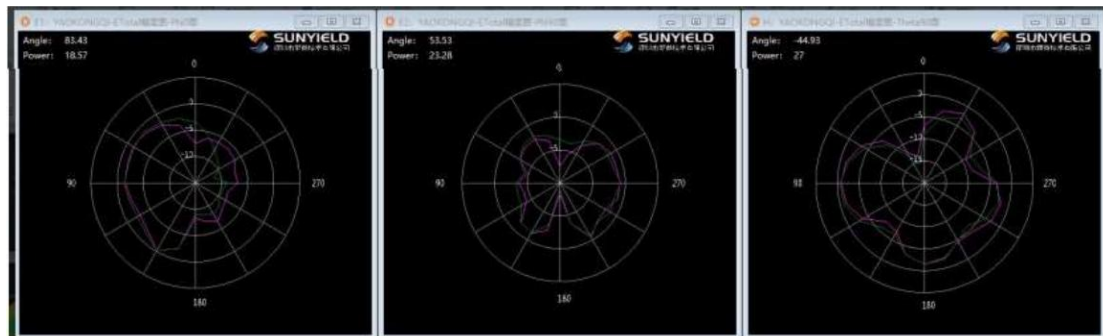
Horizontal Plane (XY Plane): Uniform 360° omnidirectional
radiation with gain fluctuation

≤0.5dBi, featuring excellent coverage uniformity.

Vertical Plane (XZ Plane): Moderate pitch radiation angle; signal
attenuation at high and

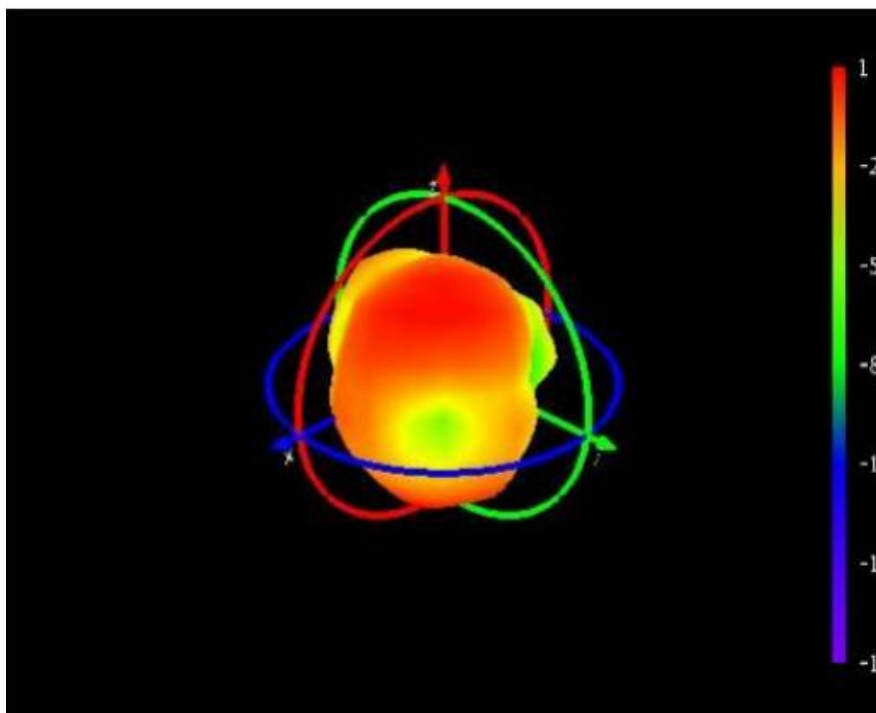
low angles is gentle, suitable for horizontal communication

scenarios.



3.2 3D Radiation Pattern

The antenna presents a standard spherical omnidirectional radiation profile in 3D view. There is no directional blind spot on the horizontal plane, and the vertical radiation range matches the pitch angle of conventional wireless communication. It delivers high overall radiation efficiency and balanced signal coverage, fully meeting wireless communication demands for household, commercial and industrial applications.



3.3 Antenna Efficiency Data

Frequency (MHz)	Peak Gain (dBi)	Efficiency (dBi)	Efficiency (%)
2380	0.68	-3.37	45.98
2390	0.72	-3.36	46.18
2400	0.68	-3.29	46.85
2410	0.61	-3.23	47.53
2420	0.47	-3.23	47.54
2430	0.32	-3.25	47.30
2440	0.22	-3.27	47.11
2450	0.14	-3.33	46.47
2460	0.10	-3.43	45.42
2470	0.13	-3.53	44.36
2480	0.15	-3.68	42.90
2490	0.14	-3.89	40.81
2500	0.06	-4.17	38.27
2510	-0.12	-4.49	35.56
2520	-0.37	-4.85	32.74
2530	-0.65	-5.25	29.88
2540	-0.96	-5.65	27.20
2550	-1.28	-6.07	24.69

3.4 On-board PCB Antenna Layout Diagram

