

2.4G WiFi Antenna

Revision History:

Rev.A0

1. MODEL: X750

P/N: E12-01542-01

2. Applications

This antenna is designed for 2.4G WiFi.

3. Electrical Characteristics

Frequency Band: 2400MHz~2500MHz

Polarization *Gain :

Max peak gain: 2.6 dBi

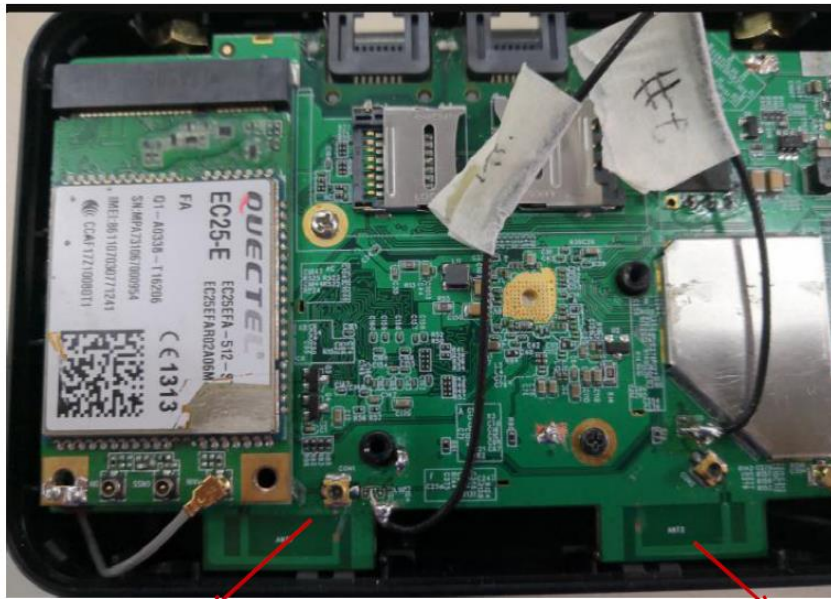
Typ peak gain: 0 dBi

Impedance: 50Ω

Antenna Type: PCB

Prepared	Checked	Approved
liang	wangyuhua	kenny

4. Antenna Dimension



wifi 1# 2.4G

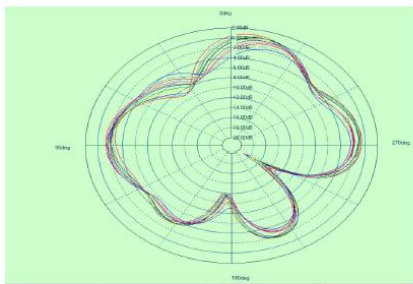
wifi 2# 2.4G

5. Typical Free Space Radiation Pattern

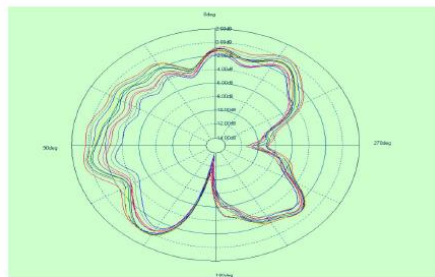
3D&2D Radiation Pattern

wifi 1# Direction diagram

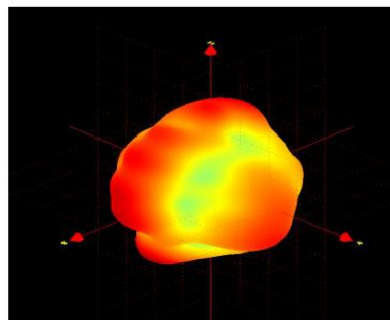
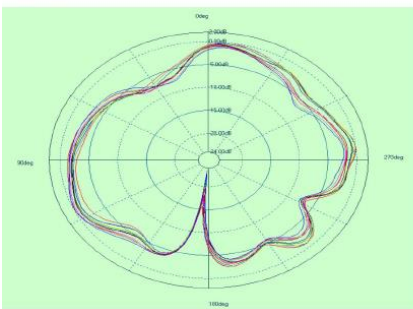
XOY



XOZ



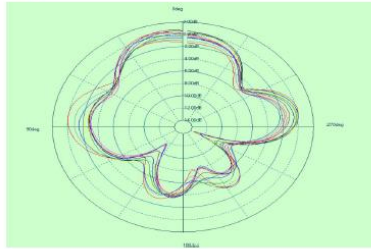
YOZ



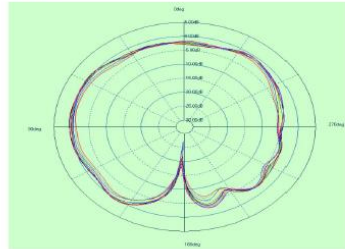
Prepared	Checked	Approved
liang	wangyuhua	kenny

wifi 2# Direction diagram

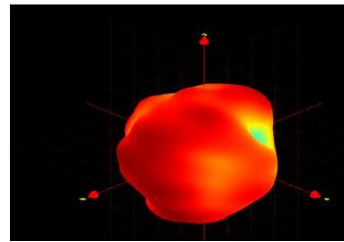
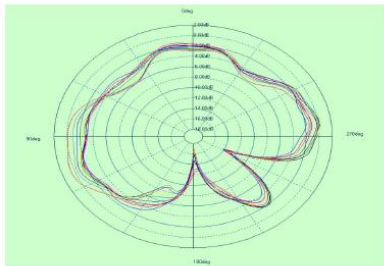
XOY



XOZ



YOZ



6. Antenna Gain

wifi 1# Efficiency gain test data

Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2.4E+09	49%	-3.09515	2.4E+09	2.419265707
2.41E+09	48%	-3.14465	2.41E+09	2.580741636
2.42E+09	48%	-3.23254	2.42E+09	2.5767197
2.43E+09	48%	-3.14406	2.43E+09	2.16458782
2.44E+09	46%	-3.35259	2.44E+09	2.130095826
2.45E+09	46%	-3.34683	2.45E+09	2.303299135
2.46E+09	46%	-3.71022	2.46E+09	2.603993701
2.47E+09	46%	-3.68976	2.47E+09	2.506582291
2.48E+09	48%	-3.59465	2.48E+09	2.602975829
2.49E+09	46%	-3.84562	2.49E+09	2.438431623
2.5E+09	47%	-3.89133	2.5E+09	2.198731057

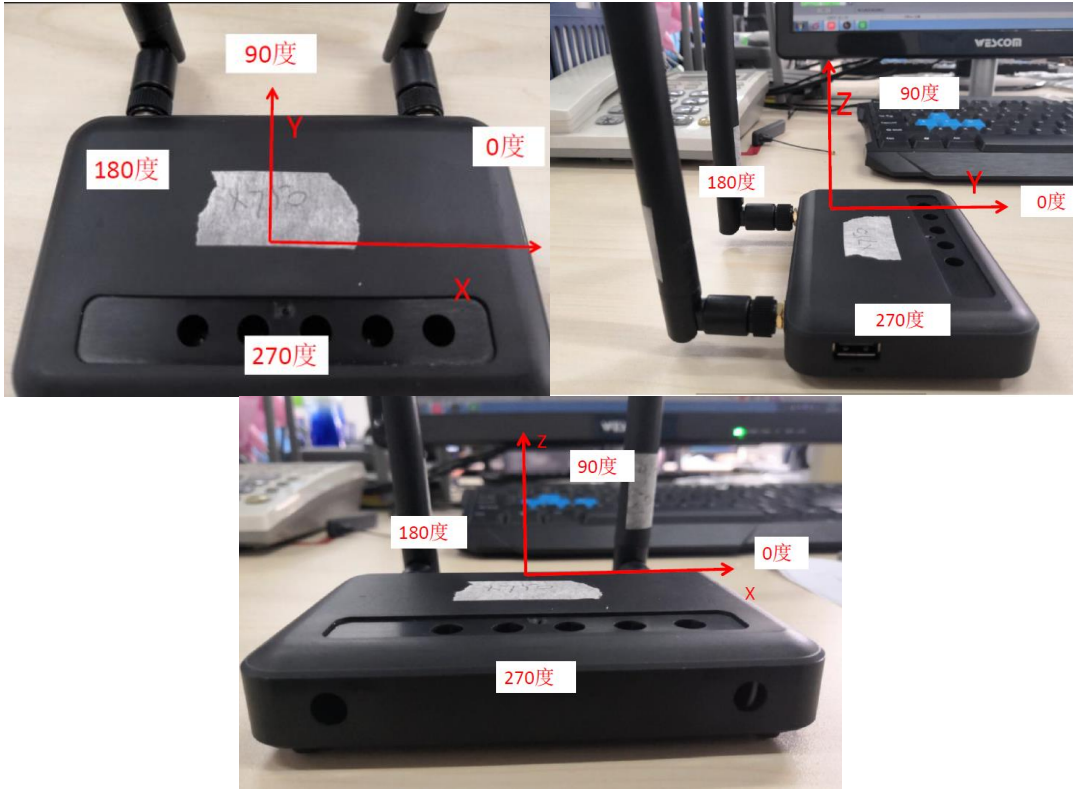
Prepared	Checked	Approved
liang	wangyuhua	kenny

wifi 2#Efficiency gain test data

Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2.4E+09	47%	-3.25124	2.4E+09	2.809130195
2.41E+09	47%	-3.30942	2.41E+09	2.539426358
2.42E+09	48%	-3.2212	2.42E+09	2.604483971
2.43E+09	48%	-3.15322	2.43E+09	2.606082361
2.44E+09	49%	-3.10007	2.44E+09	2.547073674
2.45E+09	50%	-3.04791	2.45E+09	2.063160468
2.46E+09	49%	-3.11335	2.46E+09	2.012595316
2.47E+09	47%	-3.28724	2.47E+09	2.073842281
2.48E+09	48%	-3.18253	2.48E+09	2.018955505
2.49E+09	47%	-3.27169	2.49E+09	2.005192762
2.5E+09	46%	-3.34875	2.5E+09	2.966793449

Prepared	Checked	Approved
liang	wangyuhua	kenny

7. Antenna Pattern



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liang	wangyuhua	kenny