

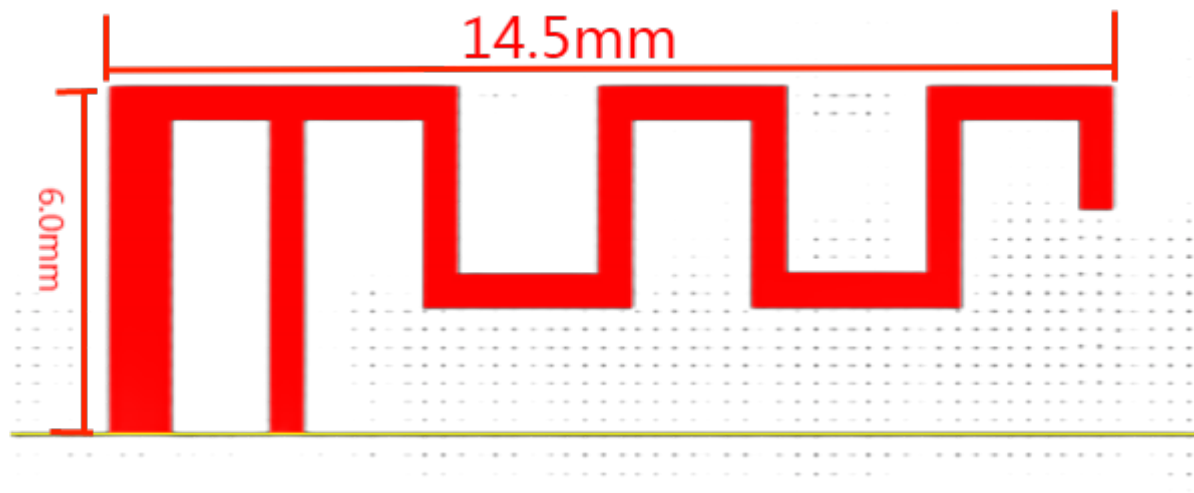
Product specification

Quick Reference Date

	Antenna module on the system board	
Frequenc Range	2400 ~ 2500MHz	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.2	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	6 0.2 %	
Gain (dBi)	1.2 (Avg Gain XY-plane)	
Maximum Power (dBm)	1.7 (XY-plane)	
Minimum Power (dBm)	-4(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Input Impedence(ohm)	50	
Polarization Type	V ertical & H orizontal	
V . S .W . R	< 1.4	

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board



Antenna Gain

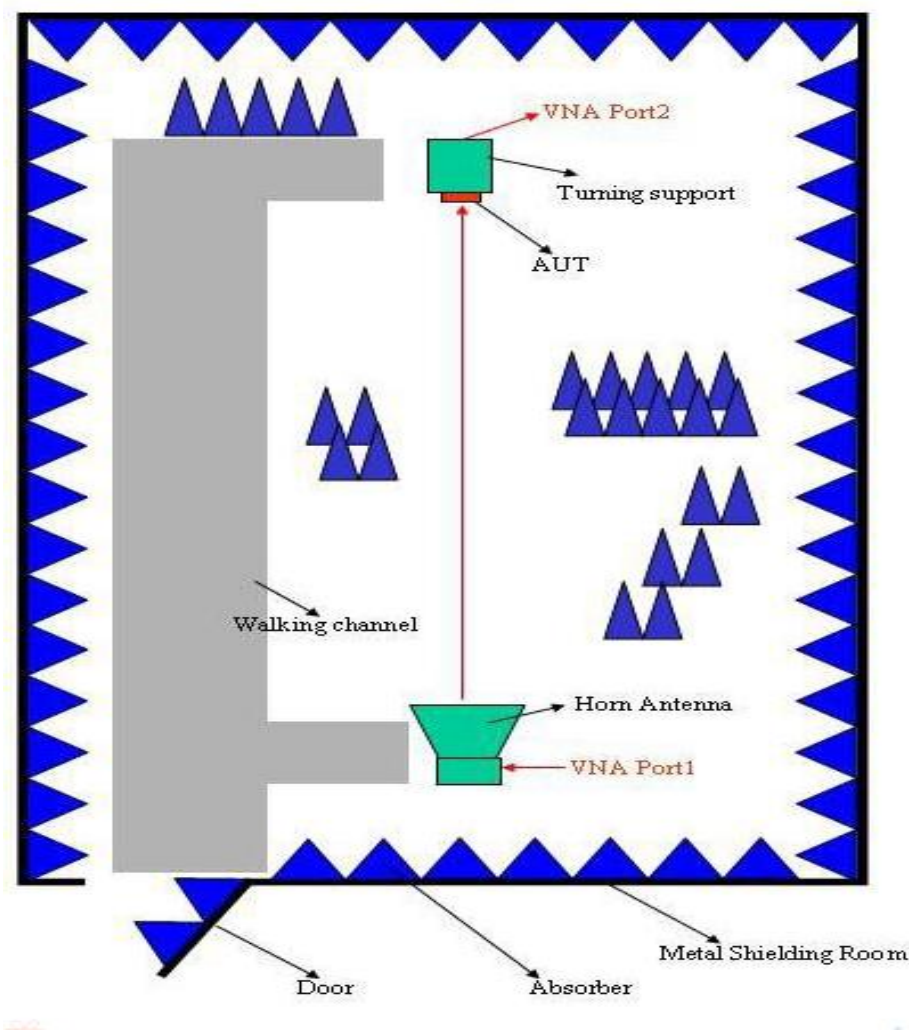
Gain Table

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.2	-0.5	1.9	-3.6	1.1	-3.0	6 0.2 %

Return Loss



The Environment of Antenna Radiation Patten



The image displays a 2D radiation pattern plot in a polar coordinate system. The plot shows a red, irregular shape representing the radiation pattern, centered around a yellow arrow pointing to the origin, labeled "0.00 deg". The plot is overlaid with a green circle. A color bar on the right indicates the dB scale, ranging from -40 dB (blue) to +5 dB (red). The plot is divided into angular sectors by green lines, with labels for each sector: 22.50 deg, 45.00, 67.50 deg, 90.00, 112.50, 135.00, 157.50 deg, 180.00, 202.50, 225.00, 247.50, and 270.00. The axes are labeled +x, -x, +y, and -y.

Parameter	Value
θ :	92.0 deg
ϕ :	-2.5 deg
Amp:	-5.200 dB
Phase:	0.0 deg

Far-field Power Distribution(H+V) on X-Y Plane
 Plot Peak Gain(H+V)= 1.35 dBi, Plot AvgGain(H+V)= -0.48dBi @2.4000 GHz

Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)> 1.08 dBi, Plot AvgGain(H+V)> -3.83dBi @2.48500 GHz

Far-field Power Distribution(H+V) on Y-Z Plane
 Plot Peak Gain(H+V)= 1.11 dBi, Plot AvgGain(H+V)= -2.99dBi @2.4600 GHz

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