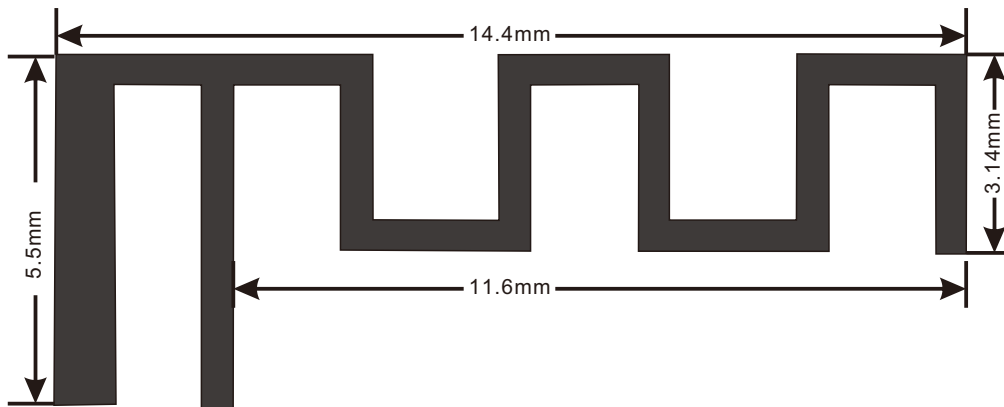


Product specification

Quick Reference Date

ITEM	Antenna module on the system board
Mode Name	2.4G ANT
Antenna type	PCB
Frequency	2.40GHZ-2.480GHZ
Ant.Port Input Pwr.(dBm)	0(Typ.BT class2 output power)
Tot.Rad.Pwr.(dBm)	-2.3
Peak EIRP(dBm)	1.3
Directivity(dBi)	1(all direction antenna)
Efficiency(dB)	-2.3(58.5%)
Gain(dBi)	1.68(Peak Gain X Z-plane)
Maximum Power(dBm)	1.35(XY-plane)
Minimum Power(dBm)	-4(XY-plane)
Avg.Power(dBm)	-0.48(XY-plane)
Max/Min Ratio(dB)	5.3(XY-plane)
Max/Avg Ratio(dB)	1.68 (XY-plane)
Min/Avg Ratio(dB)	-3.83(XY-plane)
Average Gain	-0.48(Avg Gain XY-plane)
Manufacture	Shenzhen Bluetrum Technology Co. , Ltd.
Address:	1301-1, Building A, Zhihui Square, No.4068 Qiaoxiang Road, Gaofa Community, Shahe Street, Nanshan District, Shenzhen City, Guangdong

Antenna Layout & module



Antenna Gain

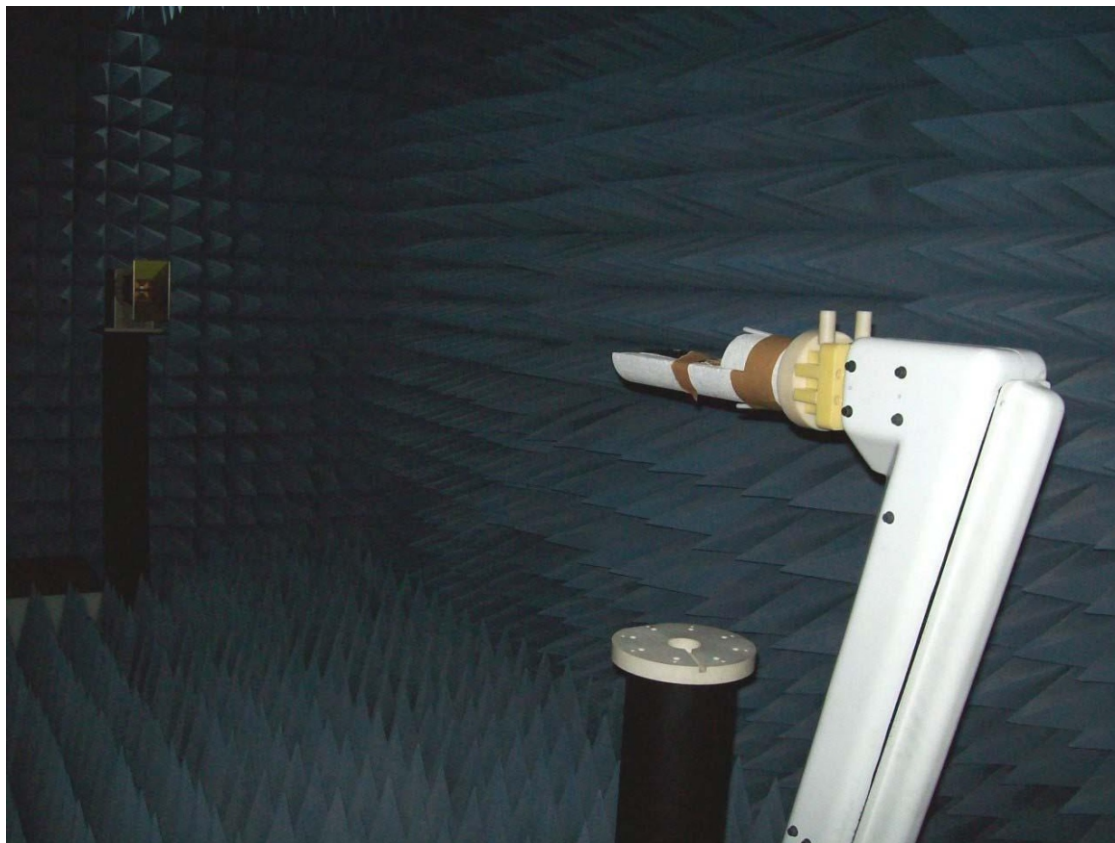
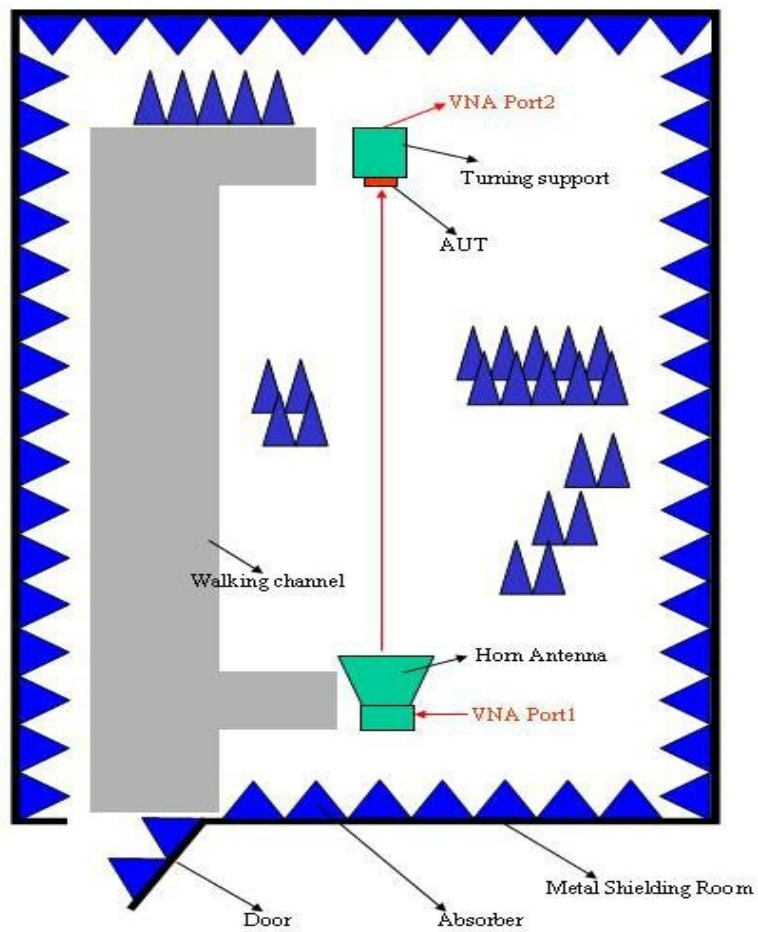
Gain Table

Unit in dBi@2.45GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.35	-0.48	1.68	-3.83	1.11	-2.99	58.5%

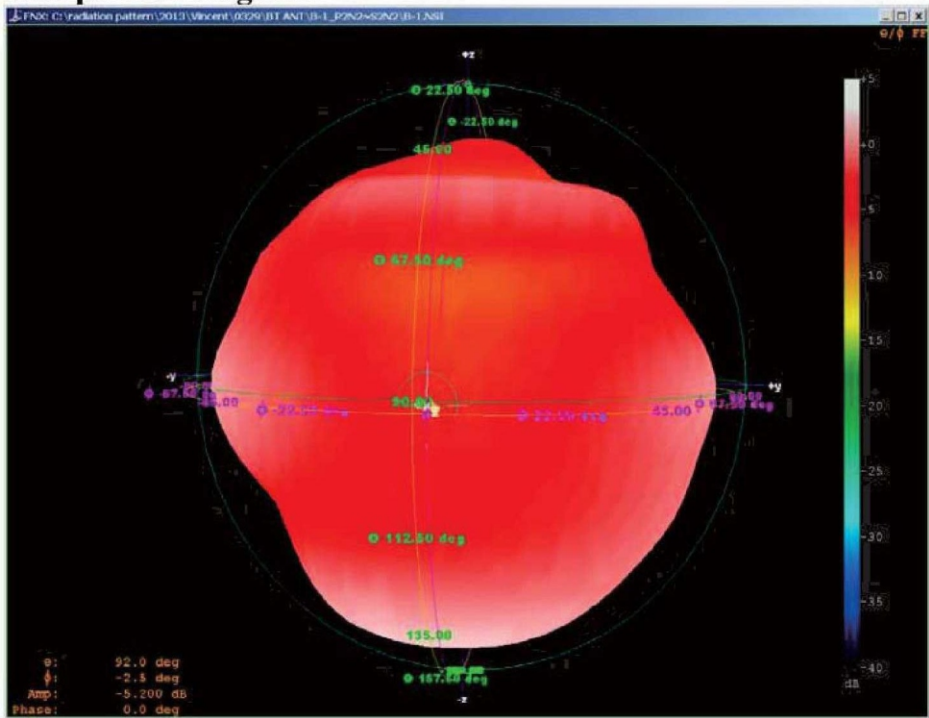
Return Loss



The Environment of Antenna Radiation Pattern

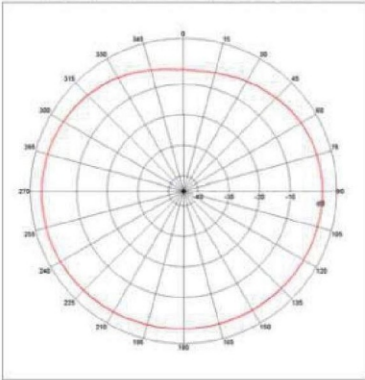


3D radiation pattern diagram



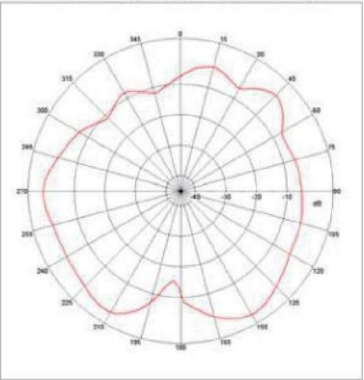
XY-plane

Far-field Power Distribution(H-V)on XY plane
pct peak Gain(H-V)=1.35dB; Pct AvgGain(H-V)=-0.48dB i @2.4500Ghz



XZ-plane

Far-field Power Distribution(H-V)on XZ plane
pct peak Gain(H-V)=1.68dB; Pct AvgGain(H-V)=-3.83dB i @2.4500Ghz



YZ-plane

Far-field Power Distribution(H-V)on YZ plane
pct peak Gain(H-V)=1.11dB; Pct AvgGain(H-V)=-2.99dB @2.4500Ghz

