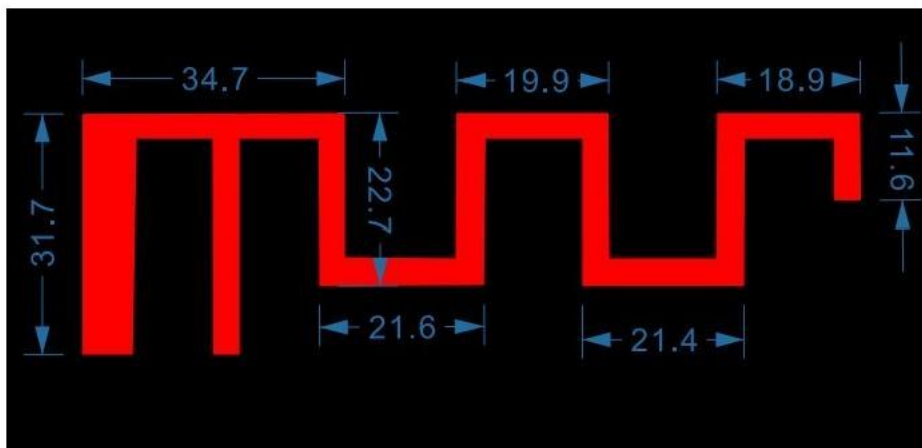


Product specification

Quick Reference Date

ITEM	Antenna module on the system board
Mode Name	2.4G ANT
Antenna type	PCB
Frequency	2.40GHZ-2.480GHZ
Antenna port Input pwr. (dBm)	0(TYP.BT Class2 output power)
Tot. Rad. pwr: (dBm)	-2.3
peakEIRP(dBm)	1.3
Directivity(dBi)	1(all direction antenna)
Efficiency(dB)	-2.3(58.5%)
Gain(dBi)	1.68 (peak Gain Xz-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

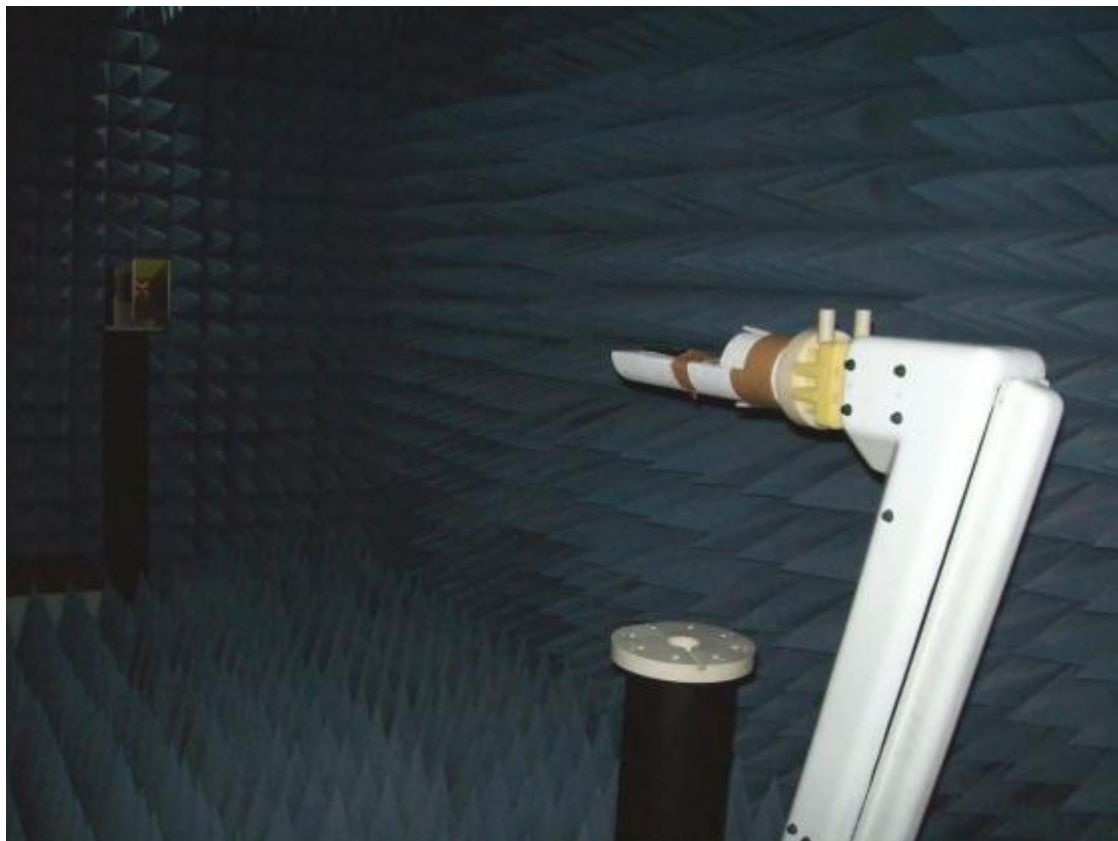
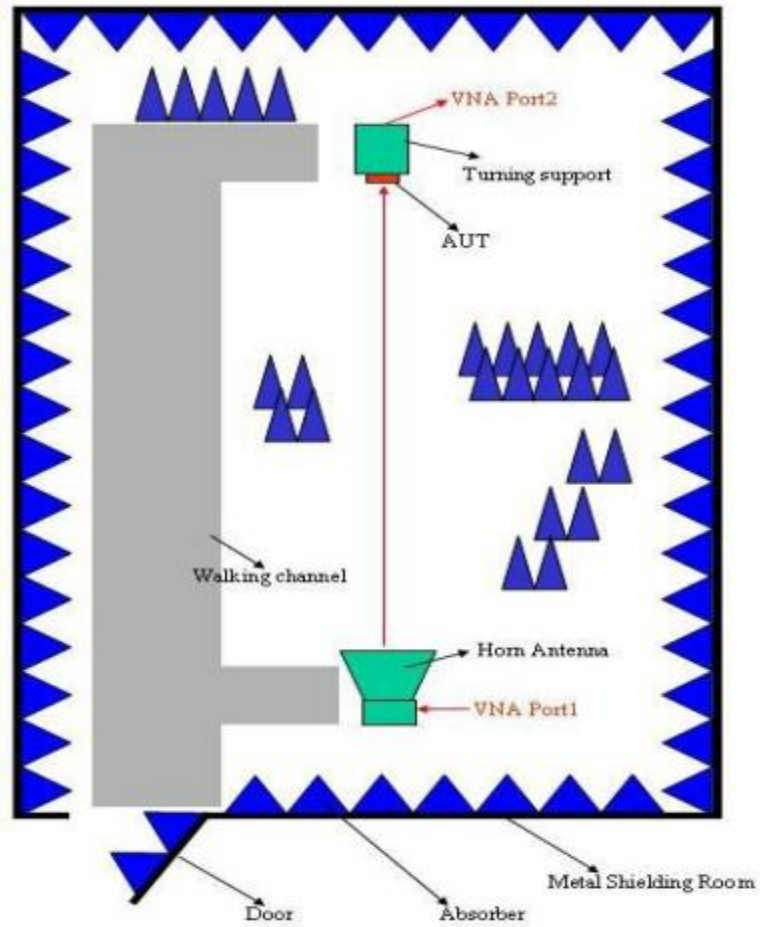
Gain Table

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%

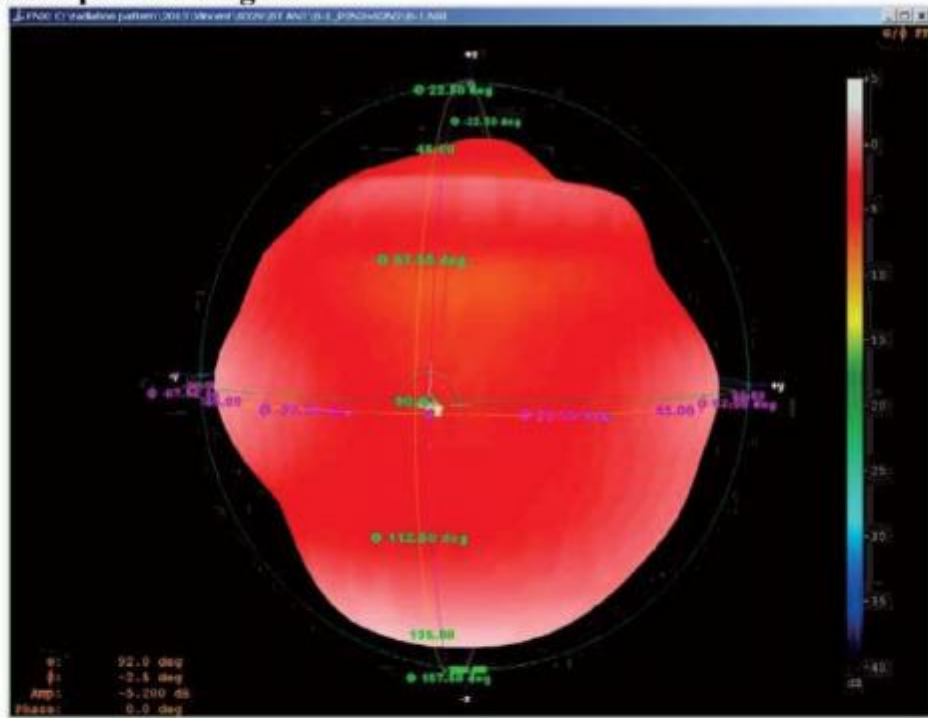
Return Loss



The Environment of Antenna Radiation Pattern

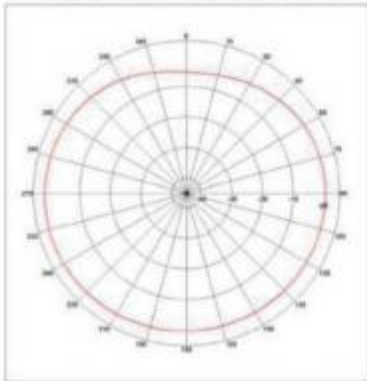


3D radiation pattern diagram



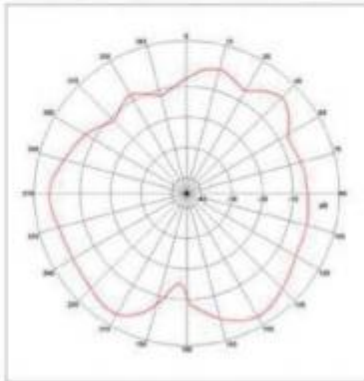
Xy-plane

Far-field power Distribution(H+v), n X-y plane
pictpcak Gain(H+v) 1.35dBi;lpct AvgGain(H+v)--0.48dBi @2.4500Ghz



Xz-plane

Far-field pwr Distribution(H+v), n X-zplane
 pict peak Gain(H+v) 1.68dBi; pictAvgGain(H+v)-3.83dBi @2.45GHz



Yz-plane

Far-field power Distribution(H+v), n Y-z plane
pict peak Gain(H+v) 1.1 [dBi]; 1pict AvgGain(H+v) -2.99dBi@2.4500Ghz

