# **Data Sheet**

CUSTOMER: Synology Inc.

MODEL NAME: 2.4GHz/5GHz Dual Band Antenna

ACON P/N:\_\_\_\_ARMEE-000000



B2, No. 207, Sec.3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan, R.O.C

TEL: 886-2-8913-1939 FAX: 886-2-8913-2538 Http://www.acon.com



#### 1 Specification

## 1.1 Electrical Properties

1.1.1 Frequency Range	2.4GHz~2.5GHz&5.15GHz ~ 5.85GHz
1.1.2Impedance	50Ω
1.1.3VSWR	2:1
1.1.4Return Loss	10dB or Less
1.1.5 Peak Gain	3.5 dBi (2.4GHZ)
	4.6 dBi (5GHZ)
1.1.6Admitted Power 1W	
1.1.7Cable	Ø1.13
1.1.8 Antenna Type	Helix Type

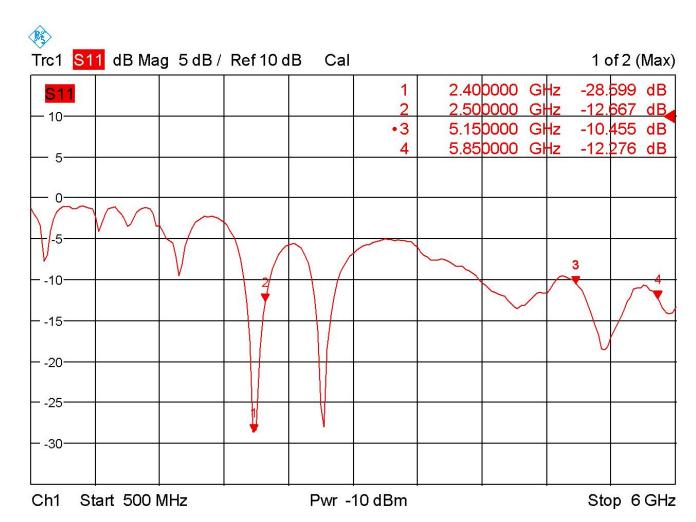
#### 1.2 Physical Properties

- 1.2.1 Antenna Body----- Helix

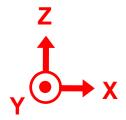


## **Performance Data**

#### 2.1 D1 VSWR (2.4 & 5GHZ)



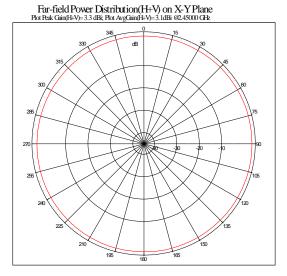
Date: 7.JAN.2015 10:10:09



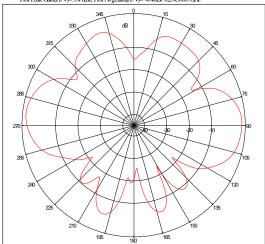


#### 2.2 Radiation pattern & Gain (WIFI 2.4&5G Antenna)

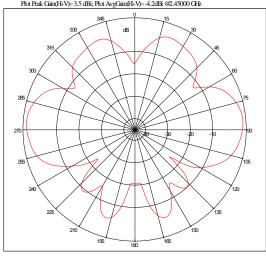
2.4G



Far-field Power Distribution(H+V) on Y-Z Plane Plot Pak Gain(H+V)= 3.4 dBi; Plot AvgGain(H+V)= 4.4 dBi @2.45000 GHz

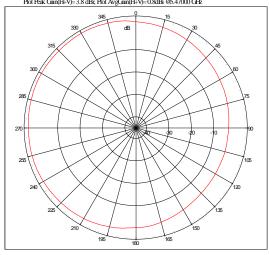


Far-field Power Distribution(H+V) on X-Z Plane Plot Pak Gain(H+V)= 3.5 dBi; Plot AvgGain(H+V)= 4.2dBi @2.45000 GHz

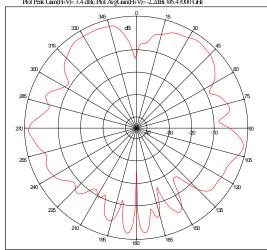


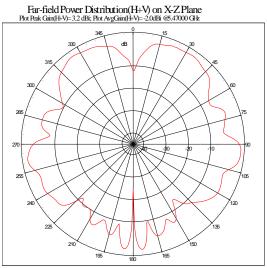
5G

Far-field Power Distribution(H+V) on X-Y Plane Pot Peak Chin(H+V)=3.8 dBi; Plot AvgCain(H+V)=0.8dBi @5.47000 CHz



Far-field Power Distribution(H+V) on Y-Z Plane Plot Peak Cain(H+V)=3.4 dBi; Plot AvgCain(H+V)=-2.2dBi @5.47000 GHz







## Antenna Gain Table: D1(2.4&5GHZ)

Freq.(MHz)	Eff. (%)	Peak Gain (dBi)
2400	63	3
2450	70	3.1
2500	69	3.5
5150	68	3.2
5350	66	3.7
5470	76	4
5725	72	3.5
5850	68	4.6



# 3.Mechanical Specification

# 3.1 Assembly Drawing

