

Antenna type: PCB Antenna

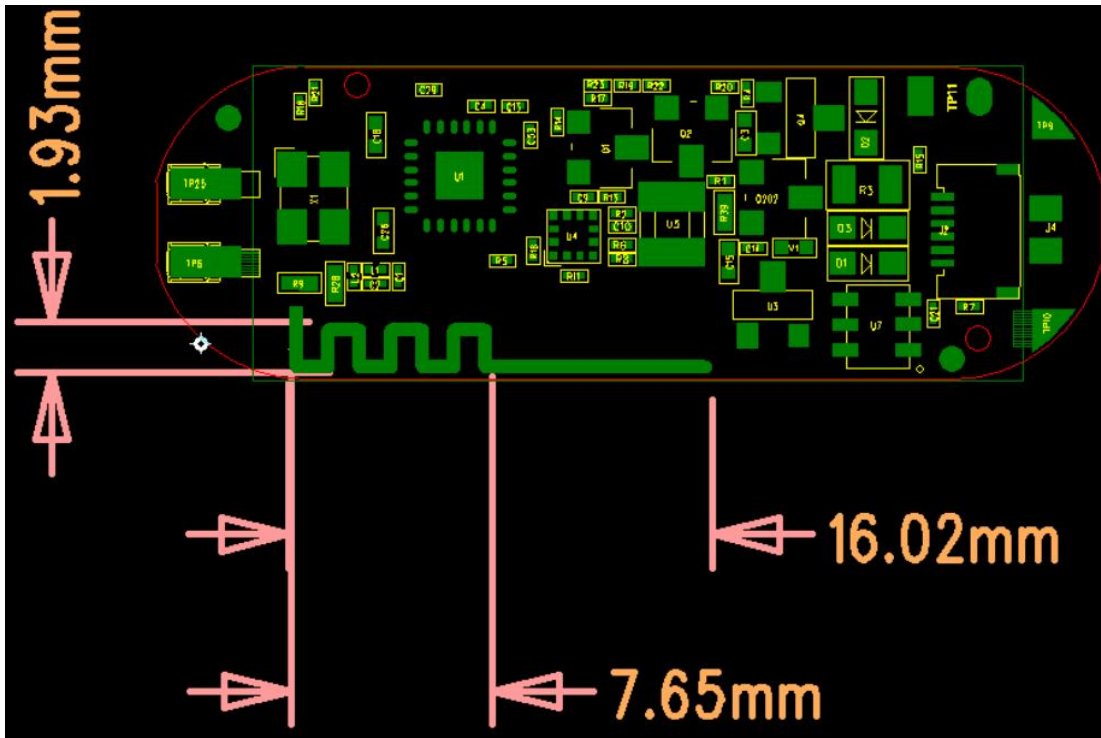
Antenna Manufacture: Telink Semiconductor

Address : Bldg3,1500ZuchongzhiRd,ZhangjiangHi-TechPark,Shanghai,China

Antenna Model:

MAX Antenna Gain: 3.34dBi

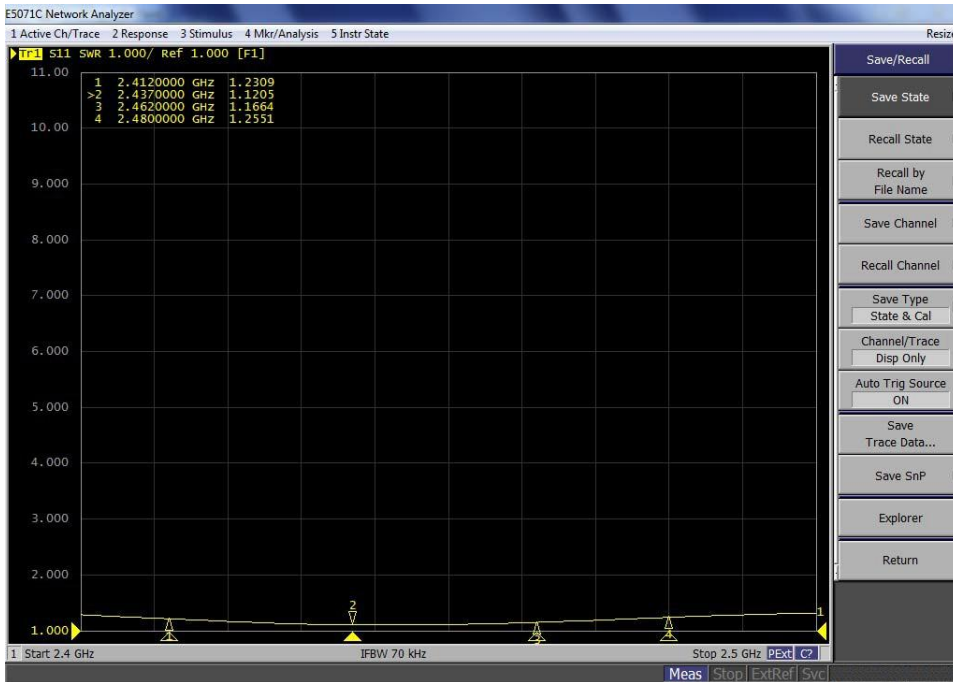
Antenna Layout & module on the system board



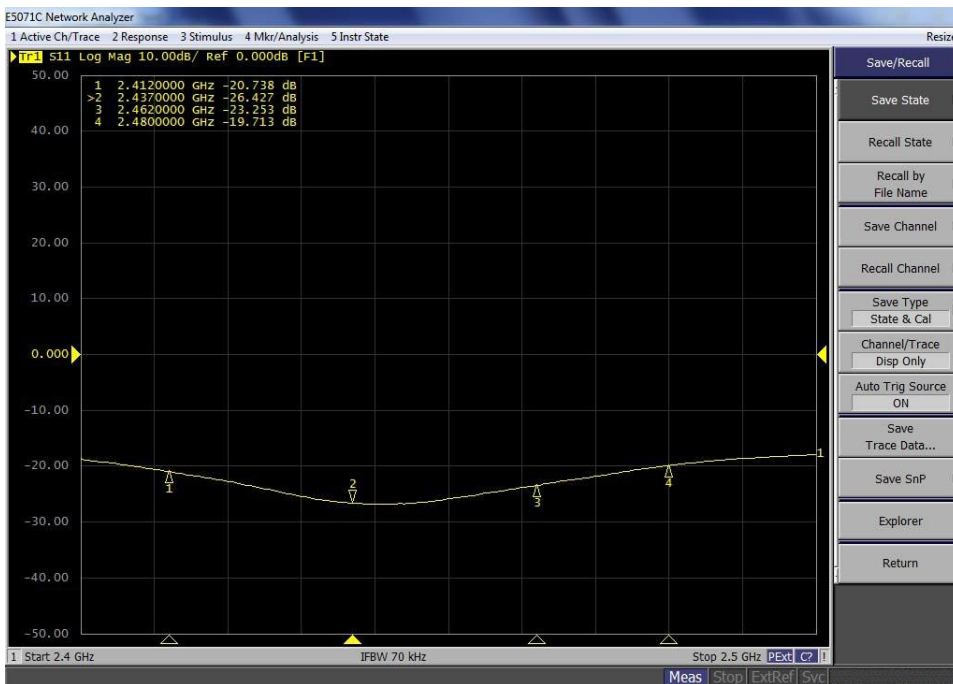
Gian and Efficiency

Model	Test Item	Test State	Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Note
ESP-ANT A	Gain	Free Space	2400	67.24	2.71	Vertical 30°
			2402	68.24	2.81	
			2410	70.74	2.92	
			2420	77.67	3.29	
			2430	78.20	3.34	
			2440	78.11	3.31	
			2450	77.14	3.27	
			2460	74.79	3.15	
			2470	75.60	3.23	
			2480	74.55	3.15	
			2490	73.05	3.19	
			2500	71.38	3.11	

## Voltage Standing Wave Ratio (VSWR)



## Antenna S11



# APPENDIX A: 2-D Pattern Plots

