

ED-ANT-C

Datasheet

by EDA Technology Co., Ltd

built: 2026-06-26

ED-ANT-C

Wi-Fi FPC Antenna

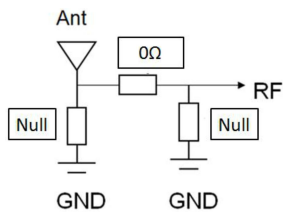
The ED-ANT-C is a dual-band Wi-Fi FPC antenna with an IPEX-1 connector. It can be directly connected to the corresponding interface on the motherboard, effectively enhancing both the transmission and reception performance of Wi-Fi signals, thereby improving the stability and reliability of the motherboard's wireless network connection.



Specifications

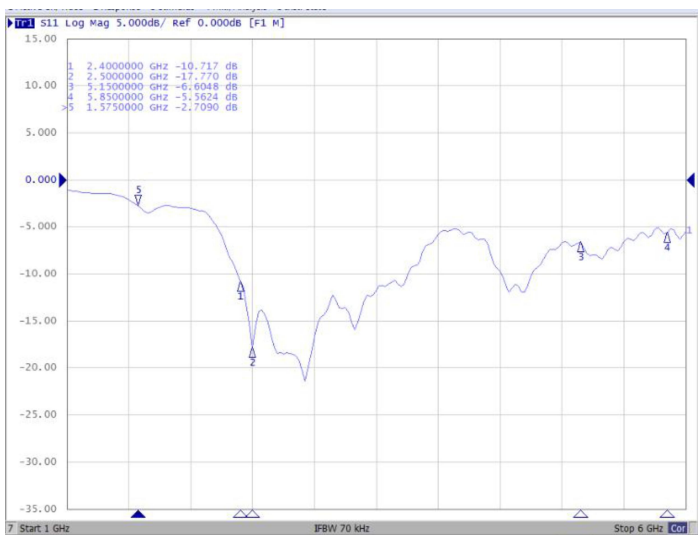
Parameter	Description
Antenna Structure	FPC+Cable
Frequency Band (MHz)	2400 ~ 2500, 5150 ~ 5850
Peak Gain (dBi)	2450MHz: 3.5 5500MHz: 3.1
Antenna Efficiency (%)	2450MHz: 51.5 5500MHz: 43.5
VSWR	< 2.5:1
Polarization	Linear Polarization
Radiation Pattern	Omni-directional
Impedance (ohm)	50
Power Handling (dBm)	33
Interface	IPEX-1
Overall Dimensions (mm)	59.45 x 21.7
Weight (g)	5
Input Characteristics Test	Agilent E5071C Vector Network Analyzer
Wireless Radiation Characteristics Test	Anechoic Chamber
Operation Temperature (°C)	-30°-70°
Storage Temperature (°C)	-30°-70°

Matching Circuit



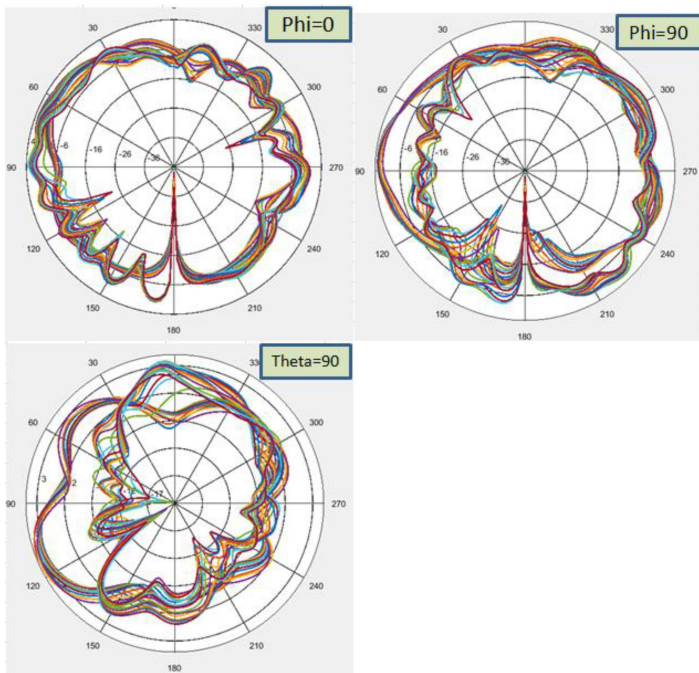
VSWR

Fre (MHz)	S11 (dB)
2400	-10.7
2500	-17.7
5150	-6.6
5850	-5.5

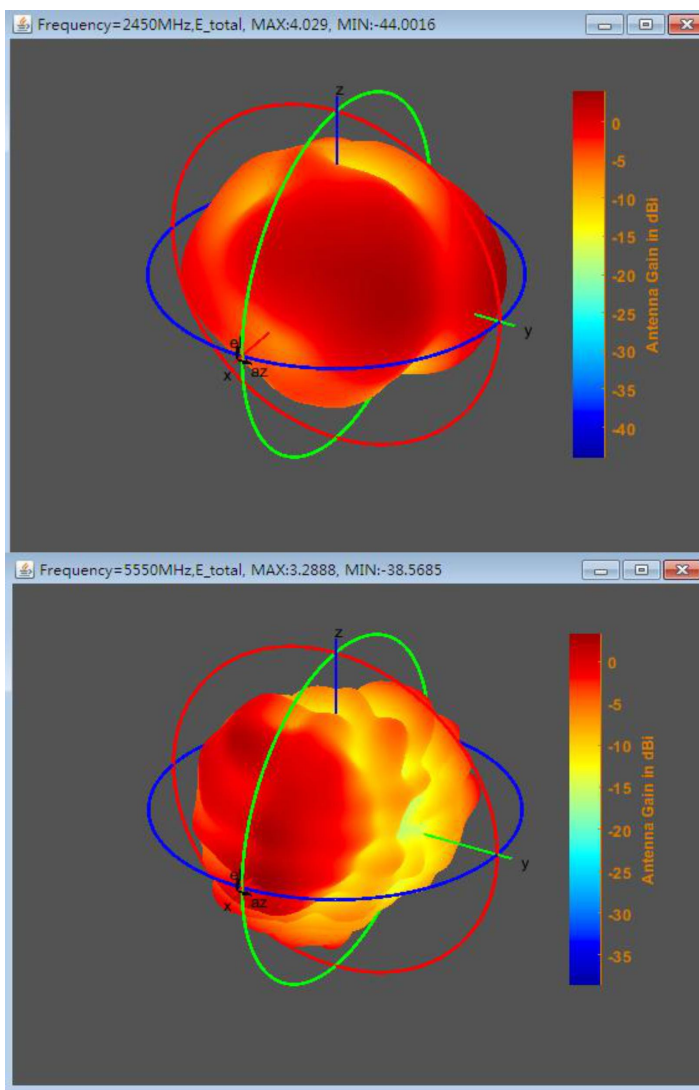


Radiation Pattern

2D Radiation Pattern:



3D Radiation Pattern:

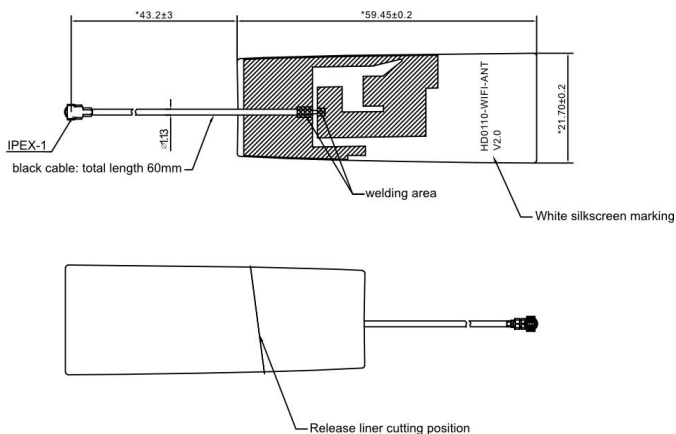


Efficiency and Gain

Fre (MHz)	Gain (dB)	Eff (dB)	Eff (%)
2400	3	-2.8	52.1
2410	2.9	-2.9	51.8
2420	3	-3	50.5
2430	3.3	-3	50.6
2440	3.4	-2.9	51.1
2450	3.5	-2.9	51.5
2460	3.5	-2.8	52.8
2470	3.3	-2.8	52.8
2480	3.7	-2.6	54.8
2490	3.7	-2.5	55.6
2500	3.4	-2.7	54.2
5150	3.3	-3.8	41.4
5200	3.2	-3.7	42.9
5250	3.1	-3.8	42.1
5300	3.1	-3.8	42.1
5350	3.2	-3.6	43.6
5400	3.3	-3.4	45.2
5450	3.2	-3.5	44.6
5500	3.1	-3.6	43.5
5550	3.3	-3.6	43.2
5600	3.3	-3.6	43.7
5650	2.9	-3.7	42.8
5700	3.2	-3.5	44.8
5750	3.4	-3.6	43.2
5800	3.4	-3.9	40.5
5850	3.2	-4	39.7

Dimensions

Unit: mm



Ordering Code

Model	Description
ED-ANT-C	Wi-Fi FPC Antenna

Package Contents

- 1 x ED-ANT-C