MID-N2101

PN: SZ21486IB77-1

Key features:

- Antenna for 2400~2500MHz and 5100~5900MHz .
- Sustained High Efficiency and Performance.
- Impedance 50 Ohm.

Typical applications:

- Smart Home.
- Gateways.
- Routers.
- Connected Agriculture.
- Others.

Sunnyway Technology

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1. Introduction

The Sunnyway MID-N2101 is a 2.4 & 5.8GHz Wi-Fi terminal mount antenna. At just 48.6mm in height and 8mm indiameter. It is ideal for applications such as Bluetooth, BLE, ZigBee and Wireless WLAN. The MID-N2101 designed for superior performance and reliability, has an omnidirectional radiation pattern and extremely high efficiency and gain on both the 2.4 & 5.8GHz bands.Typical applications:

- Smart Home.
- Gateways.
- Routers.
- Connected Agriculture.
- Others.

2. Electrical Specification

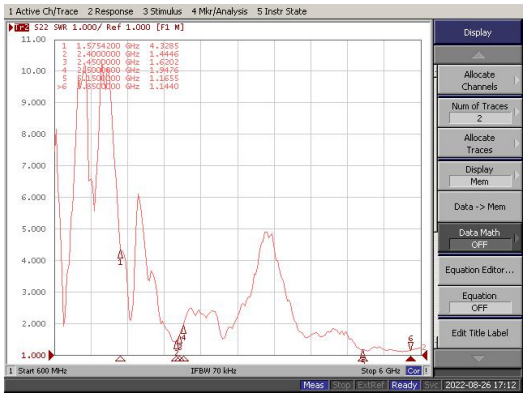
Standard	2.4G WiFi	5.8G WiFi
Frequency range (MHz)	2400~2500MHz	5150~5850MHz
Peak Gain (dBi)	3.28	3.08
VSWR	< 2.0	< 1.5
Efficiency (%)	50%~60%	30%~40%
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	

3. Mechanical and Environmental Specification

Mounting Type	Connector Mount
Connector Type	RF 1
Antenna size(mm)	36.65*10.7mm
Material	FPC
Operating Temperature (˚C)	- 30 ˚C ~ +65 ˚C
Storage Temperature(˚C)	- 30 ˚C ~ + 65 ˚C

4. Antenna parameters

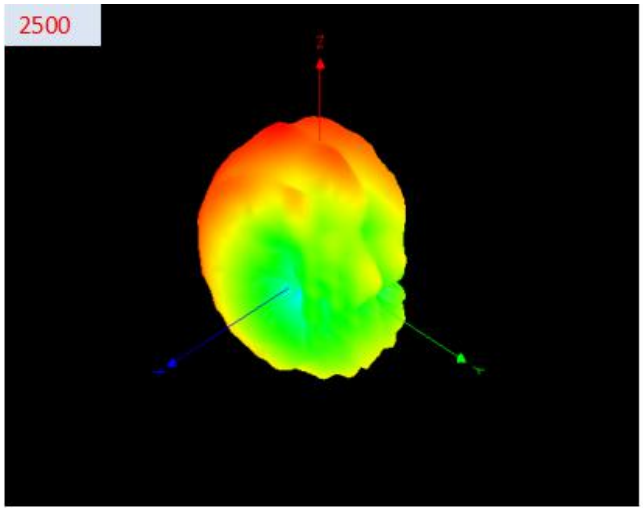
4.1 VSWR

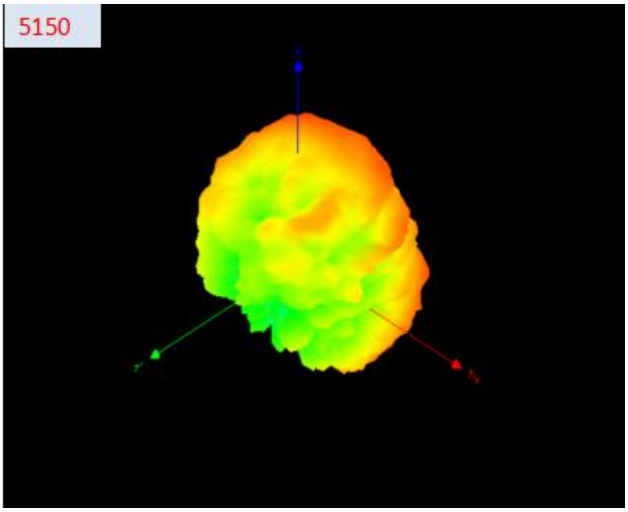


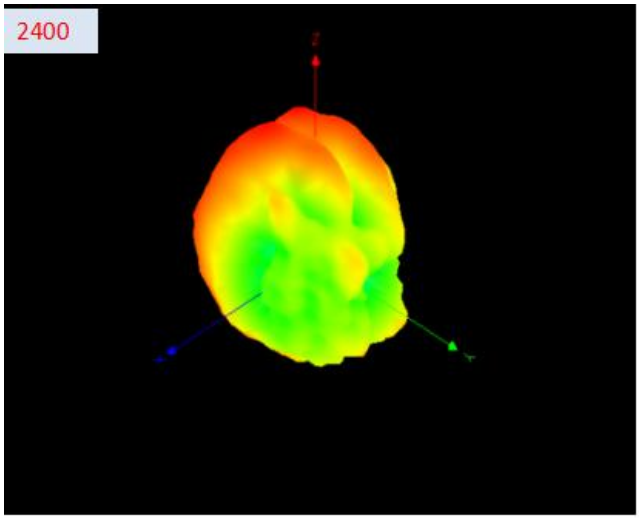
4.2 Efficiency and Gain

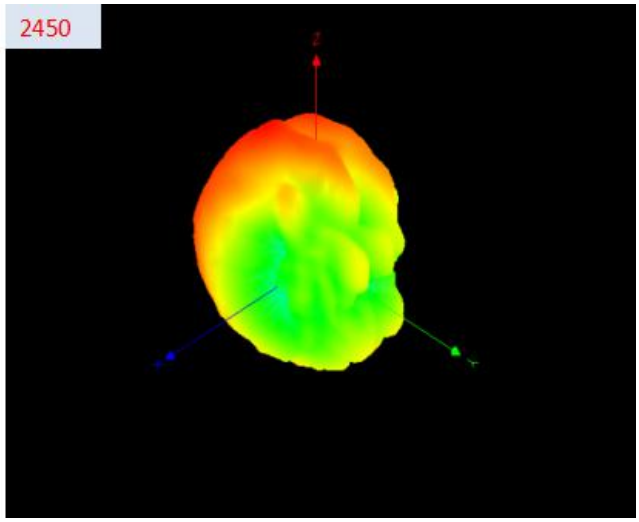
Frequency/Mhz	Efficiency / %	MaxGain/dBi		Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	54.32	2.43		5450	33.35	2.26
2410	52.71	2.55		5460	33.1	2.44
2420	52.08	1.89		5470	34.44	2.78
2430	54.42	2.72		5480	34.44	2.89
2440	55.42	2.67		5490	34.77	3.06
2450	57	3.28		5500	32.79	2.67
2460	54.64	2.67		5510	31.88	2.64
2470	53.88	2.34		5520	33.61	2.85
2480	53.45	2.33		5530	32.67	2.79
2490	54.97	2.3		5540	33.8	2.65
2500	52.19	2.24		5550	31.94	2.28
5150	33.04	1.89		5560	32.61	2.62
5160	31.19	1.83		5570	31.29	2.36
5170	31.62	1.98		5580	30.21	2.21
5180	31.41	1.93		5590	30.32	2.22
5190	31.62	2.21		5600	31.7	2.35
5200	29.04	1.82		5610	32.06	2.37
5210	29.92	2.1		5620	31.47	2.45
5220	30.2	2.24		5630	31.94	2.69
5230	30.06	2.12		5640	30.66	2.68
5240	33.31	1.99		5650	31.18	2.52
5250	34.58	2.2		5660	30.72	2.52
5260	34.92	2.22		5670	32.36	3.08
5270	34.31	2.14		5680	31.88	2.89
5280	33.91	2.07		5690	32.55	2.53
5290	33.97	1.9		5700	31.6	2.39
5300	33.25	1.9		5710	33.35	2.56
5310	33.86	1.77		5720	31.82	2.52
5320	34.05	1.72		5730	32.55	2.5
5330	33.54	1.78		5740	32.21	2.55
5340	33.61	1.8		5750	32.83	2.8
5350	31.82	1.77		5760	34	2.8
5360	33.35	2		5770	32.49	2.64
5370	34.51	2.31		5780	33.47	2.66
5380	33.48	2.21		5790	34.73	2.89
5390	32.79	1.88		5800	33	2.61
5400	31.64	1.76		5810	34.92	2.83
5410	33.1	2.16		5820	32.77	2.45
5420	34.44	2.17		5830	34.79	2.87
5430	32.61	2.12		5840	32.15	2.59
5440	34.12	2.44		5850	32.72	2.89

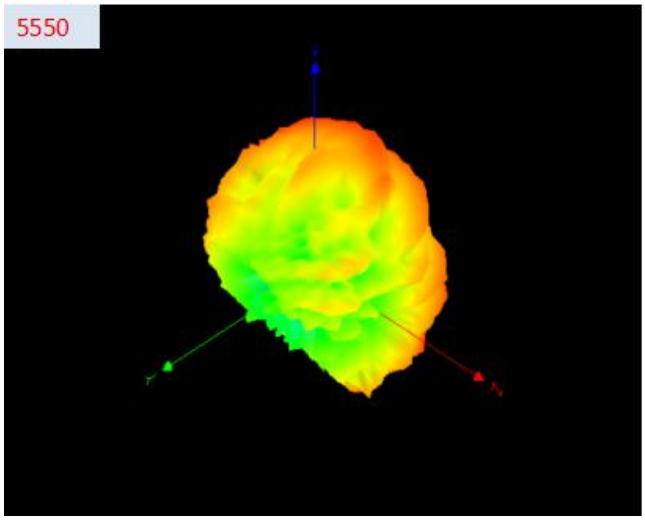
4.3 Directional pattern

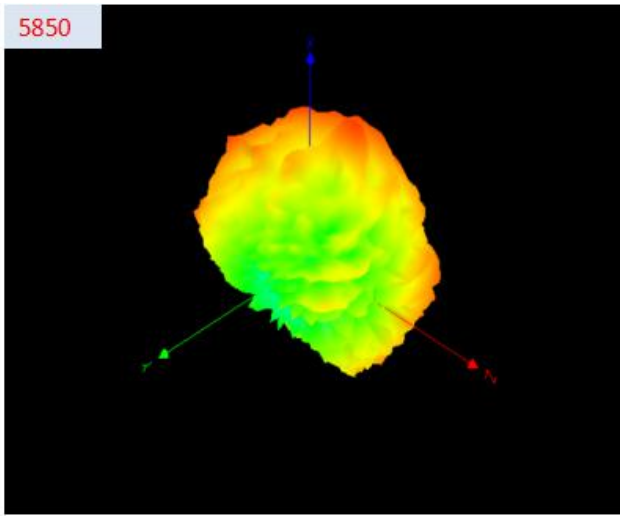




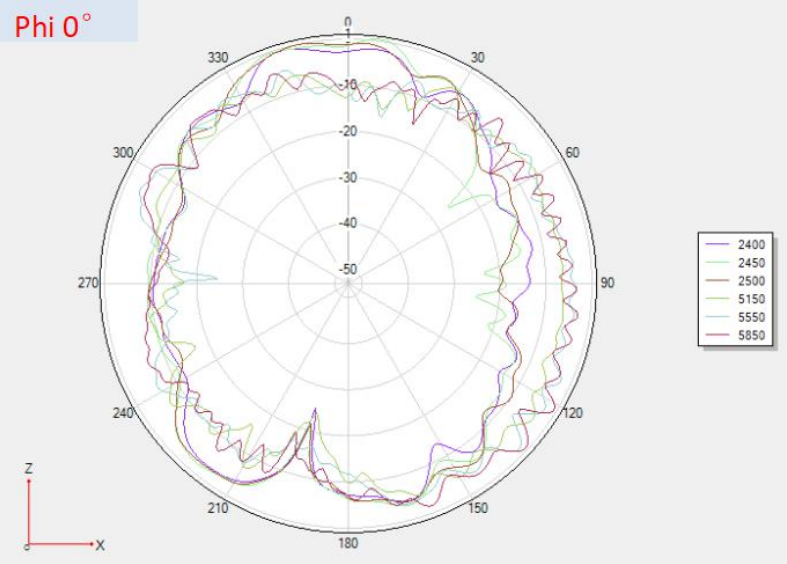




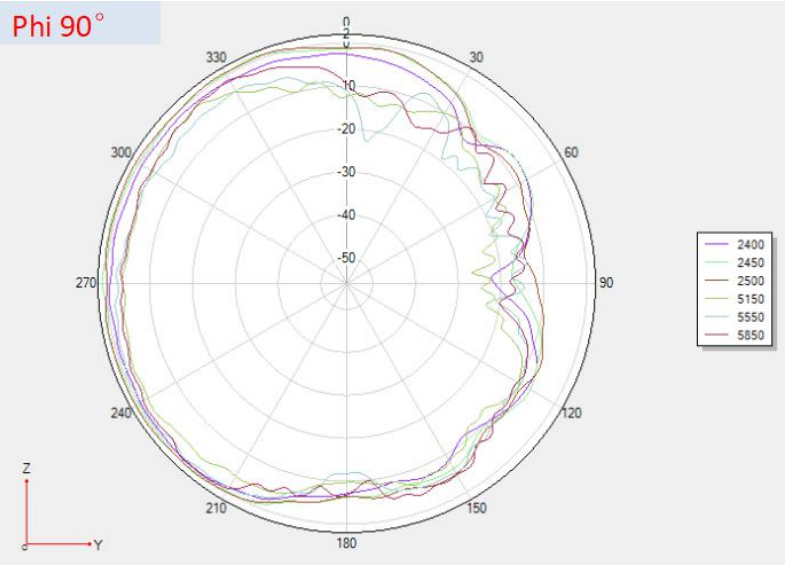




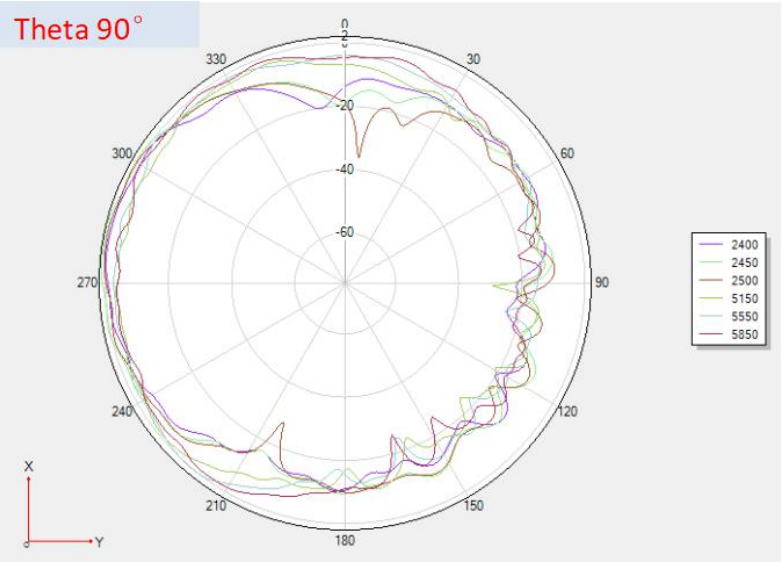
Phi 0°



Phi 90°



Theta 90°



5. Antenna Drawing(Unit:mm)

Unit:mm