



MID-N2101

PN: SZ21486IB77-2

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.

1. Introduction

2. Electrical Specification

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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 in diameter. 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

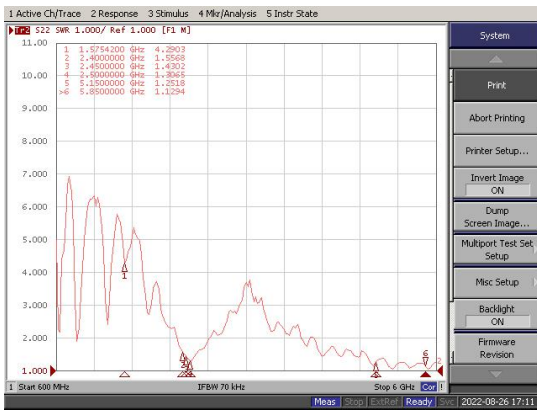
Standard	2.4G WiFi	5.8G WiFi
Frequency range (MHz)	2400~2500MHz	5150~5850MHz
Peak Gain (dBi)	3.34	2.78
VSWR	< 1.5	< 1.5
Efficiency (%)	40%~50%	30%~40%
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	

3. Mechanical and Environmental Specification

Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Right-Angle)
Antenna size(mm)	48.6X ϕ 8mm
Material	FPC
Operating Temperature (°C)	- 30 °C ~ + 65 °C
Storage Temperature(°C)	- 30 °C ~ + 65 °C

4. Antenna parameters

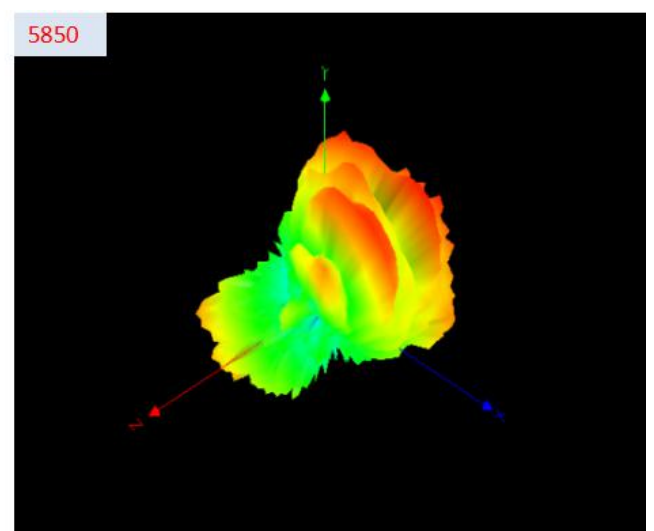
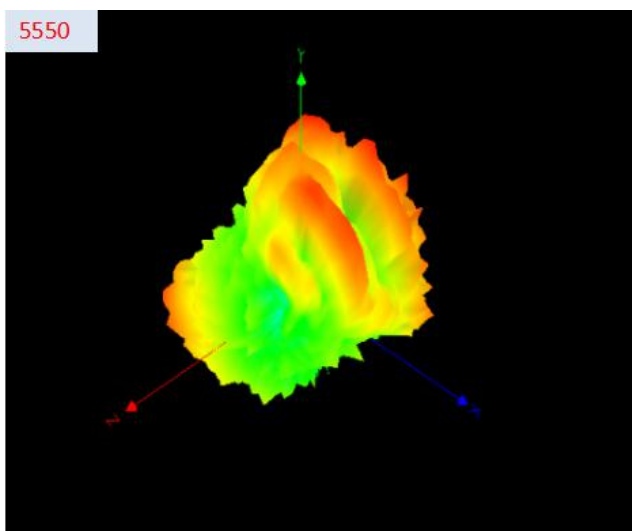
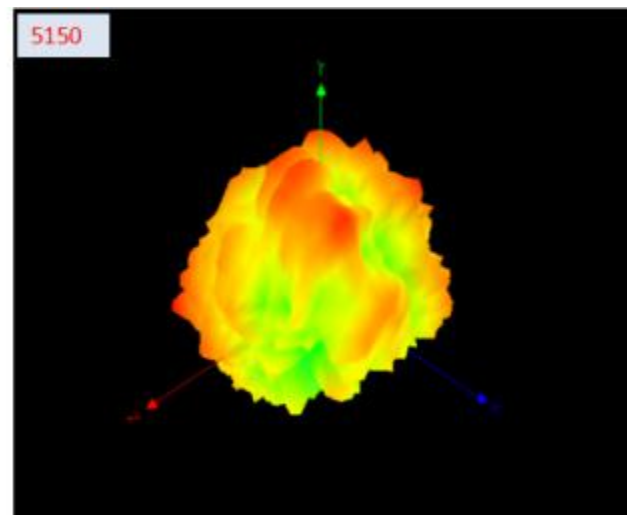
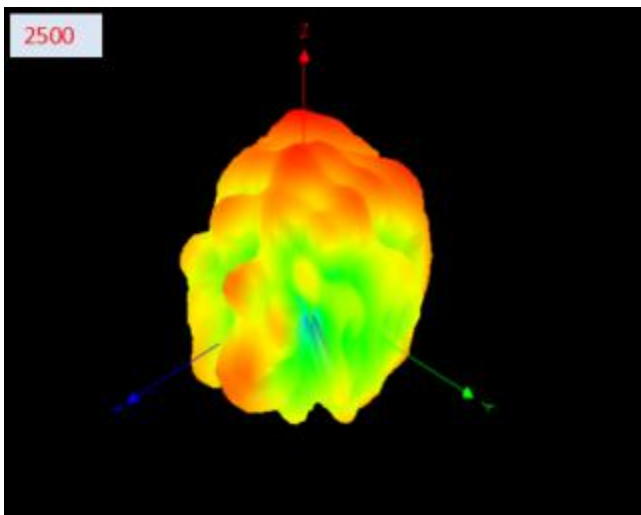
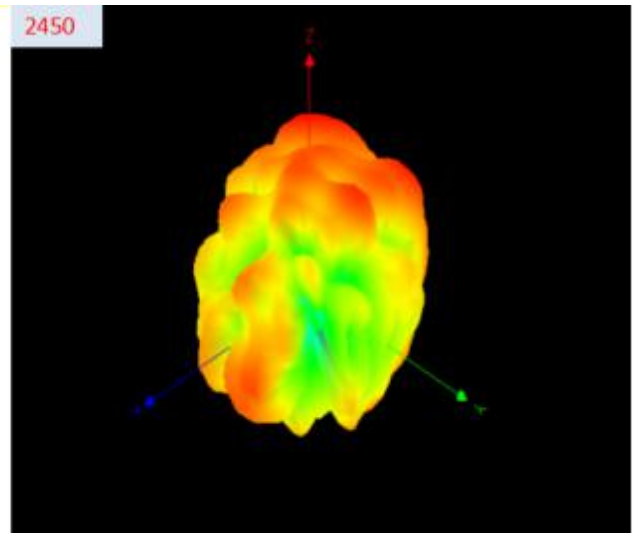
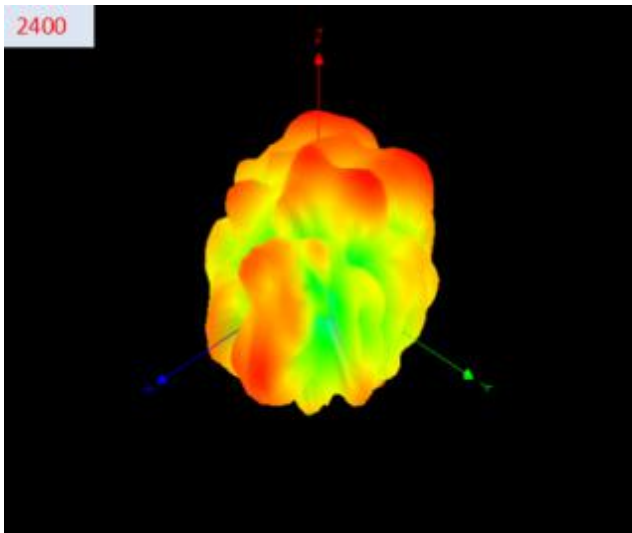
4.1 VSWR

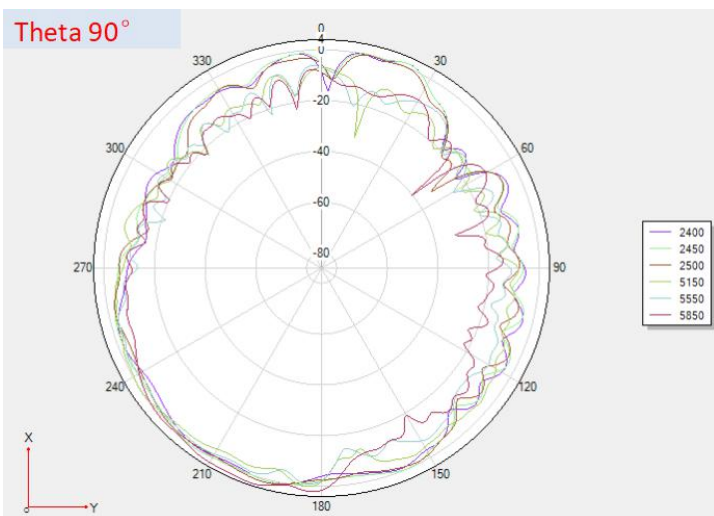
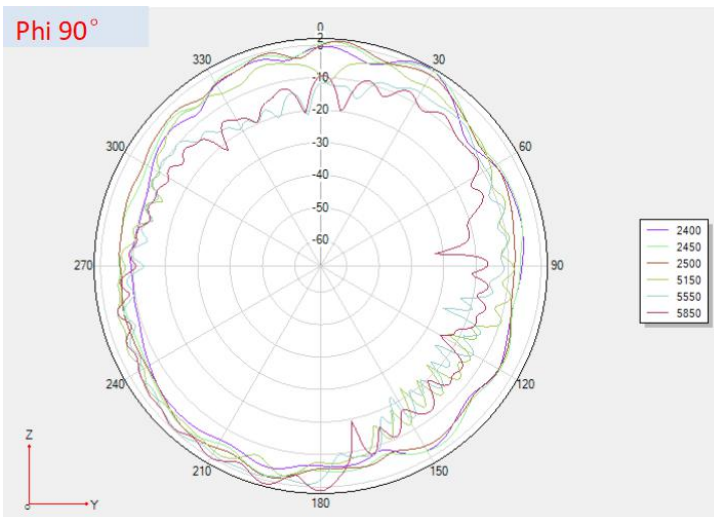
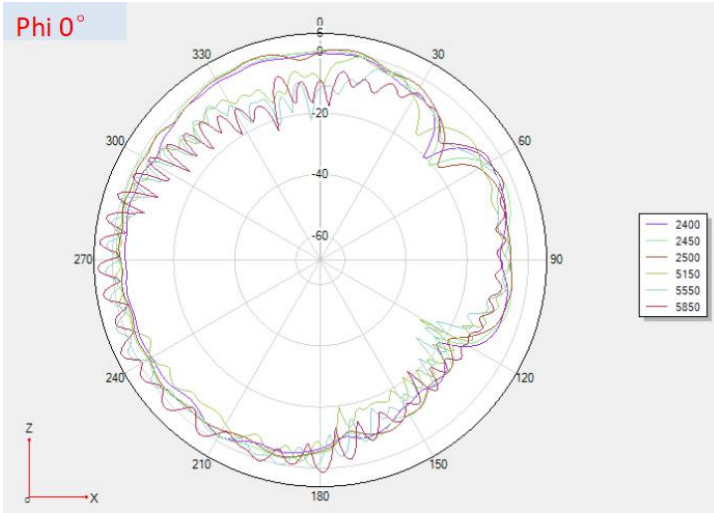


4.2 Efficiency and Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi	Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	46.55	1.99	5450	34.48	1.52
2410	46.55	2.17	5460	34.12	1.7
2420	47.73	1.74	5470	35.66	2.04
2430	49.67	2.95	5480	35.73	2.15
2440	50.89	2.9	5490	35.89	2.32
2450	49.2	3.34	5500	33.13	1.93
2460	49.51	2.96	5510	32.65	1.9
2470	47.28	2.53	5520	34.99	2.11
2480	48.42	2.84	5530	34.05	2.05
2490	46.12	2.36	5540	35.66	2.37
2500	49.59	2.98	5550	34.19	2
5150	33.2	1.09	5560	35.36	2.34
5160	31.18	1.08	5570	33.69	2.08
5170	32.24	1.12	5580	32.92	1.93
5180	32.04	1.16	5590	32.92	1.94
5190	32.92	1.19	5600	34.62	2.07
5200	30.86	0.8	5610	34.99	2.09
5210	32.85	1.08	5620	34.41	2.17
5220	33.06	1.22	5630	35.21	2.41
5230	33.48	1.1	5640	34.05	2.4
5240	32.92	0.97	5650	34.62	2.24
5250	34.12	1.18	5660	34.05	2.24
5260	34.77	1.2	5670	36.04	2.8
5270	33.9	1.12	5680	35.43	2.61
5280	34.48	1.05	5690	33.76	2.25
5290	33.97	0.88	5700	32.38	2.11
5300	33.69	0.88	5710	34.55	2.28
5310	33.76	0.75	5720	32.65	2.24
5320	34.33	0.7	5730	33.27	2.22
5330	33.83	0.76	5740	33.13	2.27
5340	34.26	0.78	5750	33.97	2.52
5350	32.24	0.75	5760	35.21	2.52
5360	33.13	0.98	5770	33.2	2.36
5370	34.55	1.29	5780	34.33	2.55
5380	33.2	1.19	5790	35.81	2.78
5390	32.38	0.86	5800	33.62	2.5
5400	30.99	0.74	5810	35.58	2.72
5410	33.06	1.14	5820	33.2	2.34
5420	35.06	1.43	5830	35.58	2.76
5430	32.92	1.38	5840	32.38	2.48
5440	35.28	1.7	5850	32.99	2.78

4.3 Directional pattern





5. Antenna Drawing(Unit:mm)

Unit:mm

