

Data Sheet

CUSTOMER: Senao

MODEL NAME: TZ280W

AWAN P/N: A8PEE-100007

Senao P/N: 7102A1245000

ADVANCED WIRELESS & ANTENNA INC



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<http://www.awan-ant.com>

Awan Test Report

AW135SM002-01

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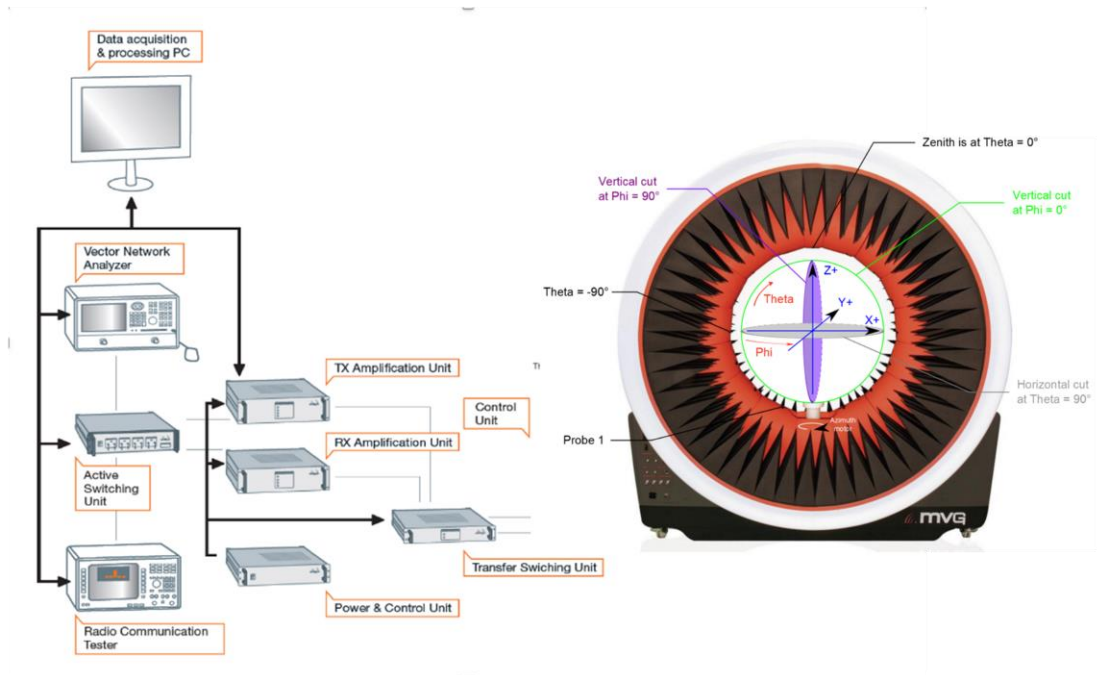
- **Antenna Testing Conditions**

1. Test System
2. Antenna Under Test
3. Antenna Specification

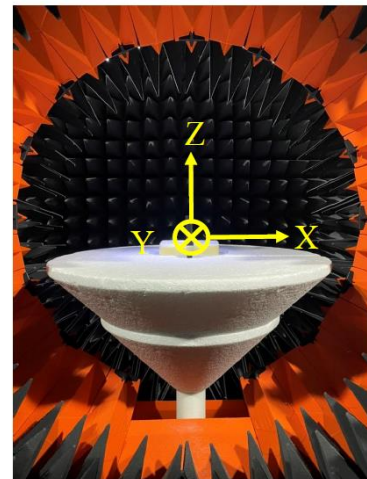
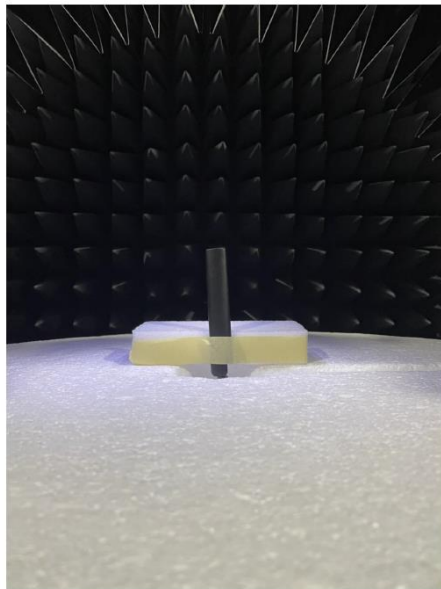
Antenna RF characteristics

1. VSWR
2. Radiation Pattern 2D & 3D
3. Gain Table

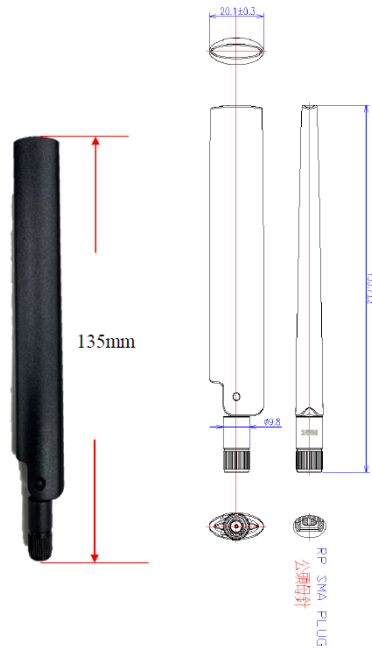
Antenna Test System



Antenna Under Test



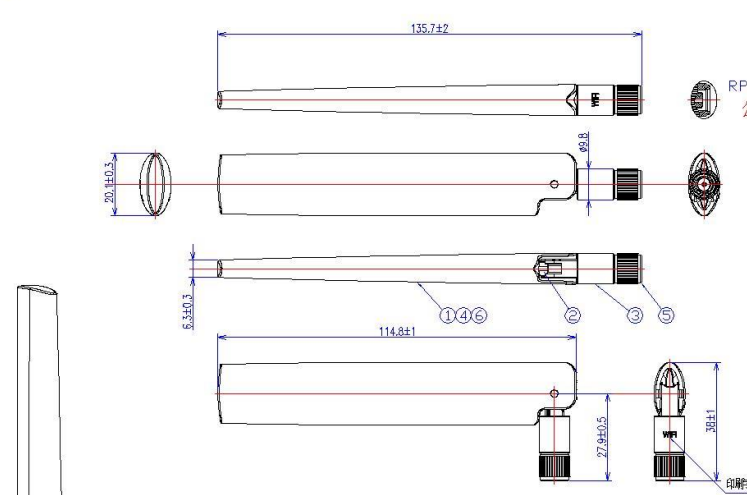
Antenna Specification



Parameter	Specification
Antenna Type	Dipole
VSWR	< 2
Frequency	2400~2500 MHz 5150~5850 MHz
Peak Gain	2400~2500 MHz @ 2.5 ± 0.5dBi 5150~5850 MHz @ 5 ± 0.5dBi
Efficiency	2400 ~2500 MHz @ 60~65 % 5150 ~5850 MHz @ 70~75 %

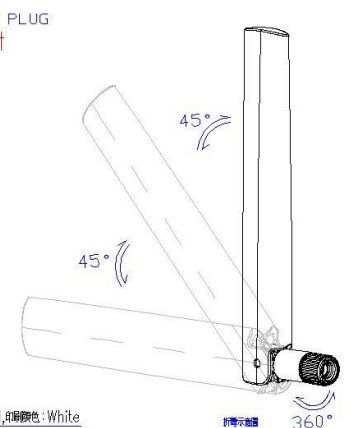
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1	2	3	4	5	6	7	8
AWAN P/N	ABPEE-100007				Rev.	EC#	Description
SENAO P/N	7102A1245000				X1		NEW RELEASE
					Drawn/Date	Checked/Date	Approved/Date
					Kim 04/12/24	Jason 04/12/24	Jerry 04/12/24



RP SMA PLUG
公頭母針

印刷字體: Arial, 印刷顏色: White



45°

360°

Electrical Properties	
Frequency	2400~2500MHz 5150~5850MHz
Impedance	50 Ohm Nominal
VSWR	< 2.0
Peak Gain	2400~2500MHz @ 2.5dBi ±0.5dBi 5150~5850MHz @ 5.0dBi ±0.5dBi
Efficiency	2400~2500MHz @ 60%~65% 5150~5850MHz @ 70%~75%
Polarization	Linear

Mechanical Properties	
CASE	ABS
CONNECTOR	SMA公頭母針
CASE COLOR	Black
Operating Temp	-30 ~ +65 °C
Waterproof level	IP67

Item	QTY	Part #	Material / Finish
6 螺絲	1		Stainless Steel
5 SMA公頭母針	1		CORAL
4 Antenna Cover	1		ABS
3 Antenna Base	1		PC/PBT
2 Antenna Cable	1		CABLE
1 PCB FR4	1		PCB



AWAN
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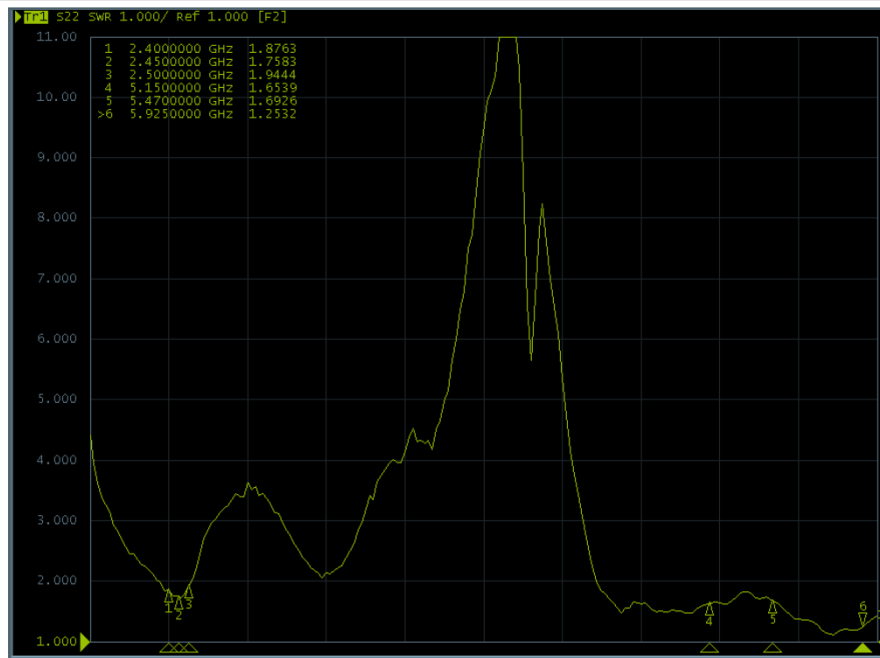
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HSF相關均實況及測試數據參照
<HSF與實物實況分作圖示表>

符合AWAN環境管理物質技術標準
All materials meet the AWAN's spec. Environment - related substances management technical standard.

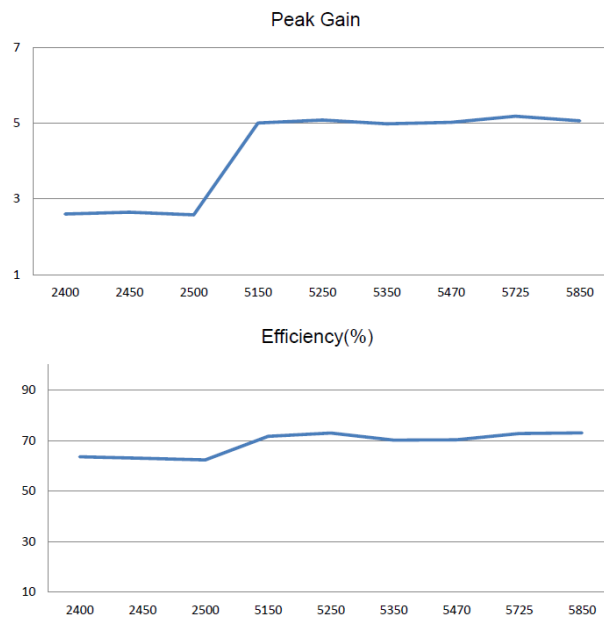
VSWR



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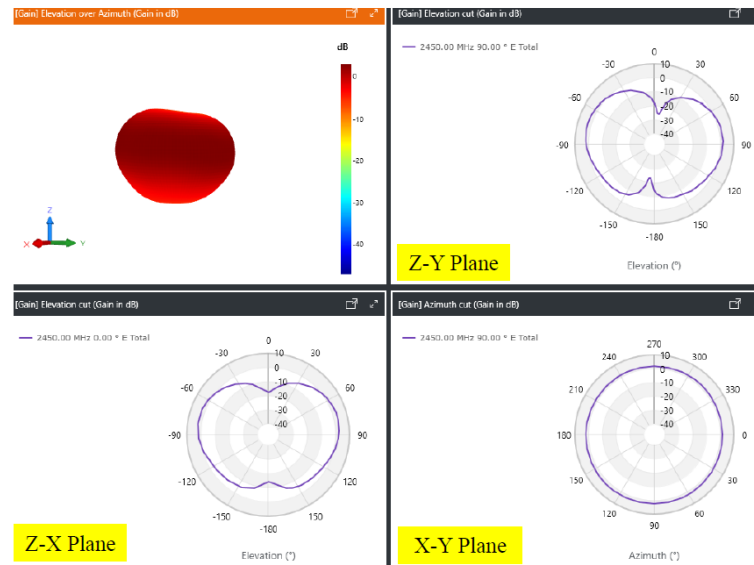
Gain Table

Frequency (MHz)	Peak Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.64	-1.97	63.54
2450	2.78	-2.01	62.96
2500	2.53	-2.06	62.29
5150	5.00	-1.45	71.62
5250	5.08	-1.37	72.94
5350	4.98	-1.54	70.17
5470	5.02	-1.53	70.31
5725	5.18	-1.38	72.78
5850	5.06	-1.36	73.04



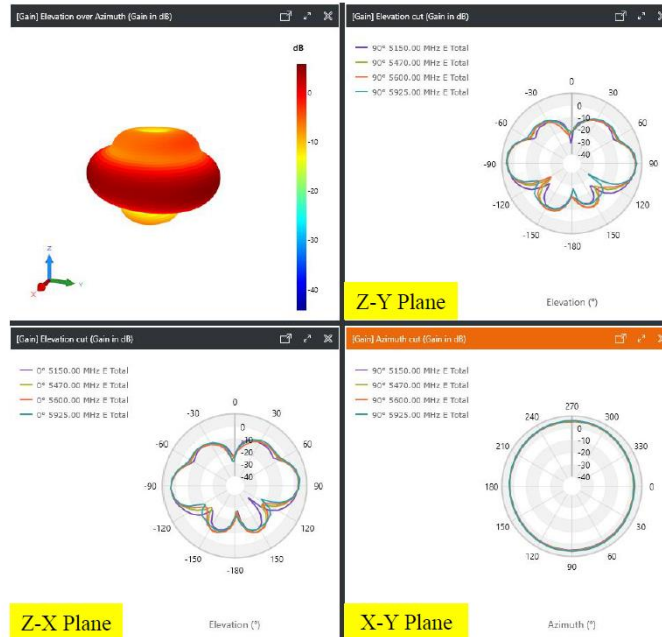
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Radiation Pattern 2D & 3D (2400~2500MHz)



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Radiation Pattern 2D & 3D (5150~5850MHz)



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