



— LTE TERMINAL

TARVOS

4G LTE / 5G RedCap IP67 Terminal Antenna

SZW-N-5L37

FREQUENCY

698 to 960 / 1710 to
2690 MHz

PEAK GAIN

Up to 2.43 dBi

CONNECTOR

SMA Male, hinged

RATING

IP67

LOW BAND	617 to 960 MHz	Covers B5, B8, B12, B13, B14, B17, B18, B20, B26, B27, B28, B29
MID BAND	1710 to 2200 MHz	Covers B1, B2, B3, B4, B9, B23, B35, B39, B66
2.3 GHZ	2300 to 2400 MHz	Covers B40
2.6 GHZ	2490 to 2690 MHz	Covers B7, B38, B41

— Key Features

- Wideband coverage across 698 to 960 MHz and 1710 to 2700 MHz
- IP67 protection with sealed swivel joint and O ring interface
- Terminal form with adjustable angle for optimal
- Internal brass tube and copper radiating structure for stable performance
- Nominal 2 dBi gain
- Compact and lightweight assembly suitable for space constrained equipment

1 Introduction

TARVOS is a compact terminal antenna designed for reliable wideband cellular performance in a fully sealed IP67 enclosure. The structure uses a PC and PBT composite housing with internal brass and copper elements that support stable operation across 698 to 960 MHz and 1710 to 2700 MHz with a nominal peak gain of 2 dBi. The design features a sealed swivel joint that maintains IP67 protection even when positioned or rotated, supported by O ring sealing and reinforced mechanical interfaces. TARVOS provides installation flexibility, consistent RF performance, and long-term environmental durability for both indoor and outdoor deployments.

— Features

- ◆ Wideband coverage across 698 to 960 MHz and 1710 to 2700 MHz
- ◆ IP67 protection with sealed swivel joint and O ring interface
- ◆ Terminal form with adjustable angle for optimal positioning
- ◆ SMA male connector with reinforced sleeve for mechanical strength
- ◆ Internal brass tube and copper radiating structure for stable performance
- ◆ Nominal 2 dBi gain
- ◆ Compact and lightweight assembly suitable for space constrained equipment
- ◆ RoHS 2.0 compliant materials and construction

— Applications

- | | |
|---|--|
| ◆ 4G and 5G RedCap routers and IoT gateways | ◆ Smart metering devices |
| ◆ Industrial control equipment | ◆ Agricultural and environmental monitoring nodes |
| ◆ SCADA and telemetry systems | ◆ Transportation and mobile asset tracking systems |
| ◆ Security panels and alarm communicators | ◆ Remote sensing and outdoor IoT installations |

2 Mechanical Specifications

Part Number	SZW-N-5L37
Name	TARVOS
Dimensions (mm)	195 × Ø 13.0
Dimensions at 90° (mm)	172 × Ø 13.0
Antenna Type	Terminal, Hinged

3 Electrical / RF Specifications

Band	Frequency Range (MHz)	Average Efficiency (%)	Peak Gain (dBi)	VSWR (worst case)	Impedance
5G NR / 4G LTE B5, 8, 12, 13, 14, 17, 18, 20, 26, 27, 28, 29	617 to 960	45.0	2.26	4.40:1	50 Ω
5G NR / 4G LTE B1, 2, 3, 4, 9, 23, 35, 39, 66	1710 to 2200	50.0	2.43	3.17:1	
5G NR / 4G LTE B40	2300 to 2400	78.0	1.59	2.07:1	
5G NR / 4G LTE B7, 38, 41	2490 to 2690	50.0	0.01	2.53:1	

4 Environmental

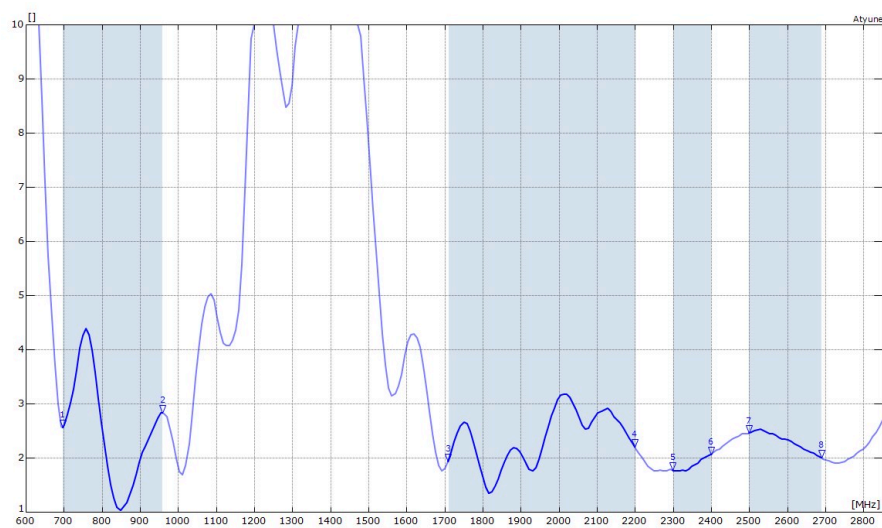
Operational Temperature	-30 to +65°C
Storage Temperature	-40 to +70°C
IP Rating	IP67
RoHS and REACH compliant	Yes

5 RF Characteristics

S11 Parameter



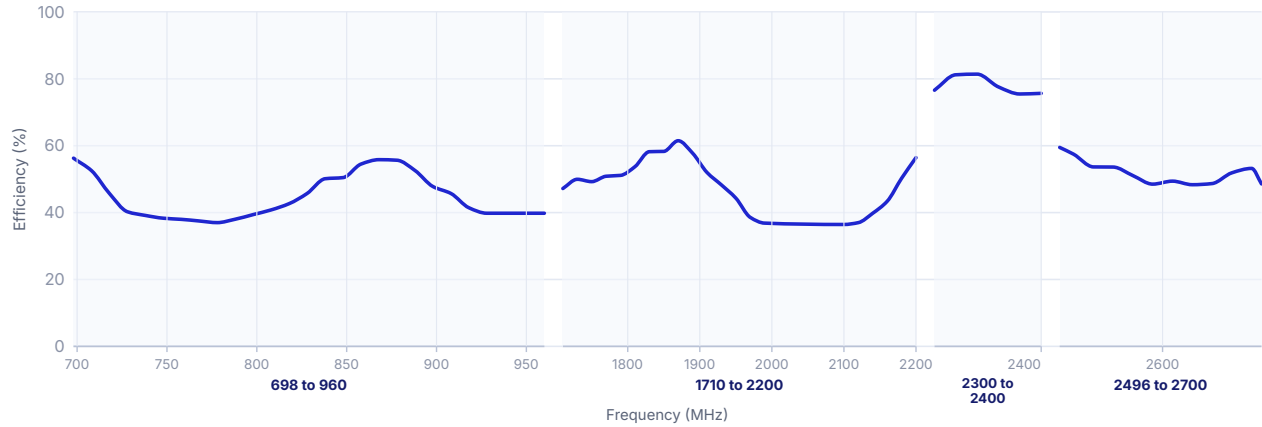
VSWR



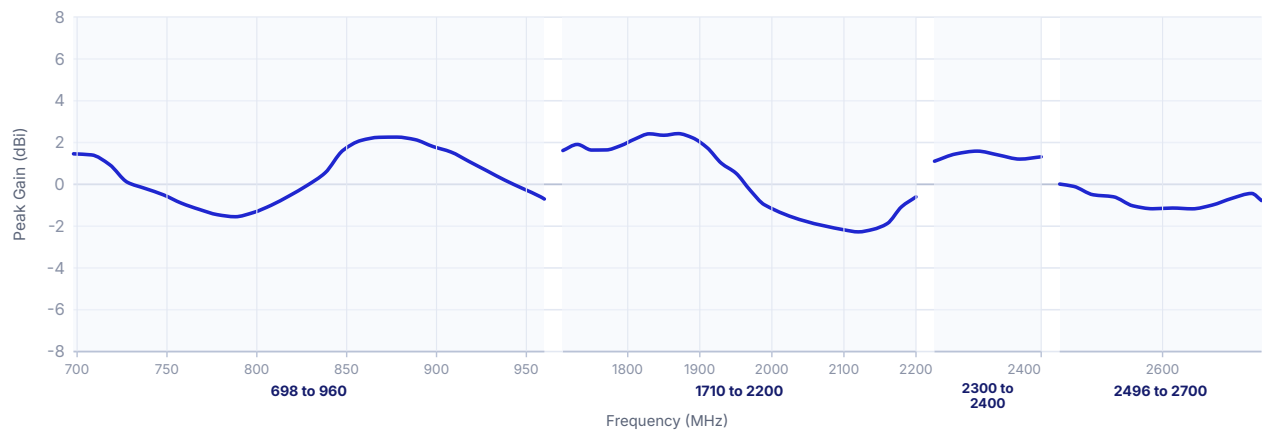
6

Antenna Performance

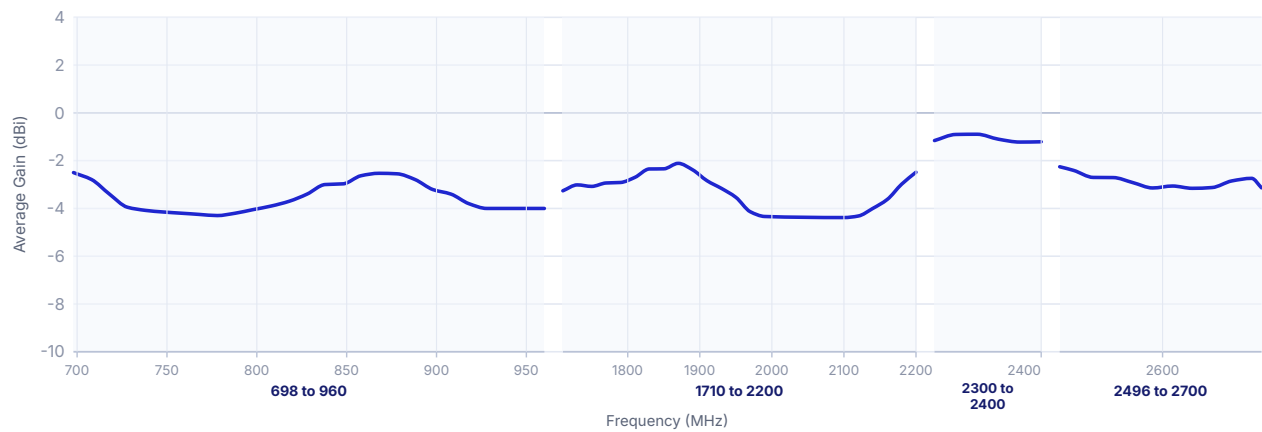
Efficiency



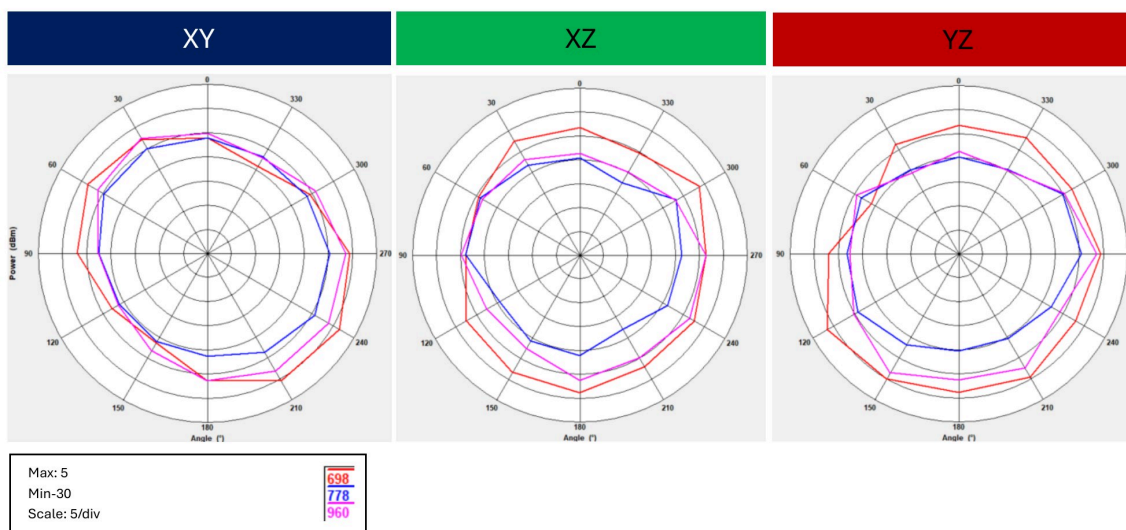
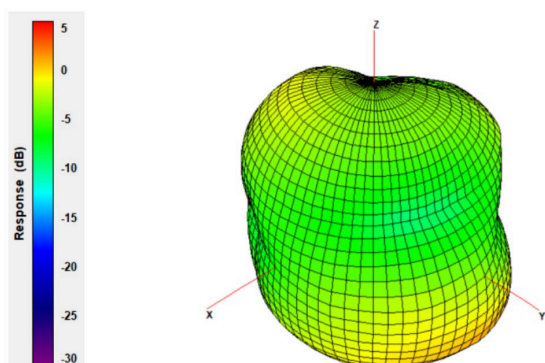
Peak Gain



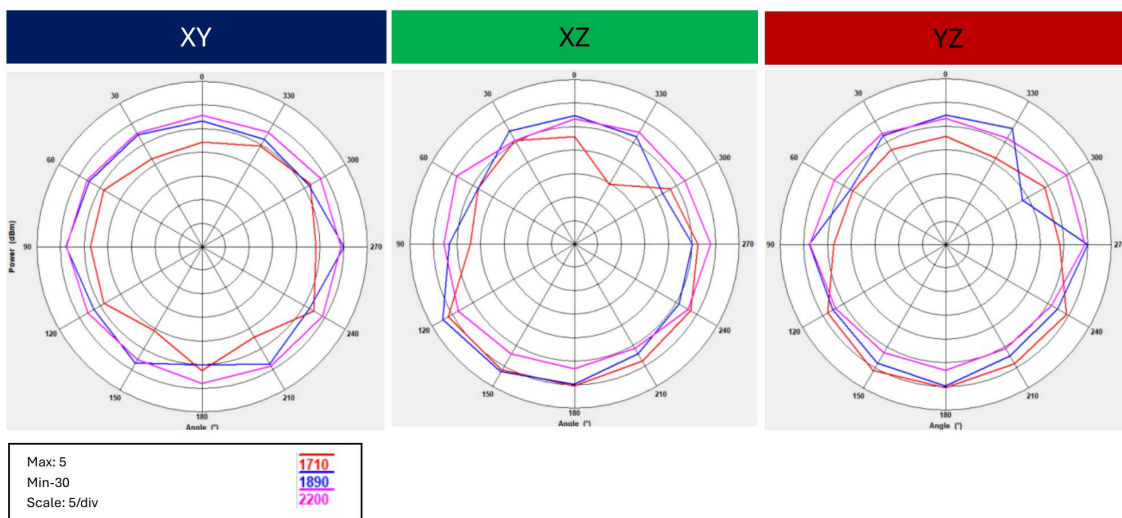
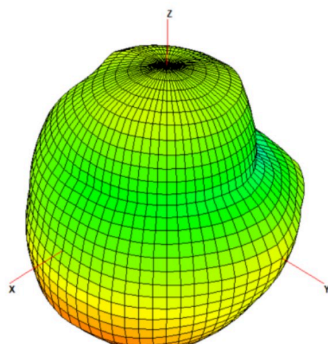
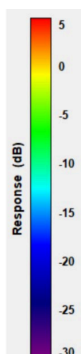
Average Gain



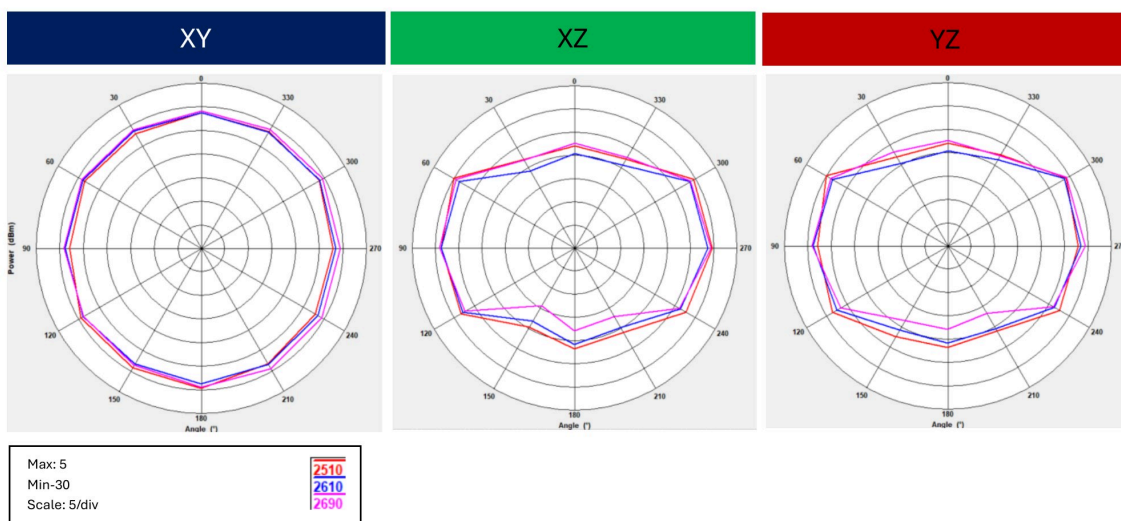
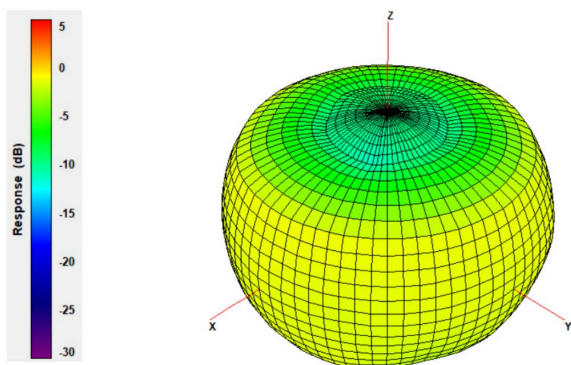
7 Radiation Patterns at 880 MHz



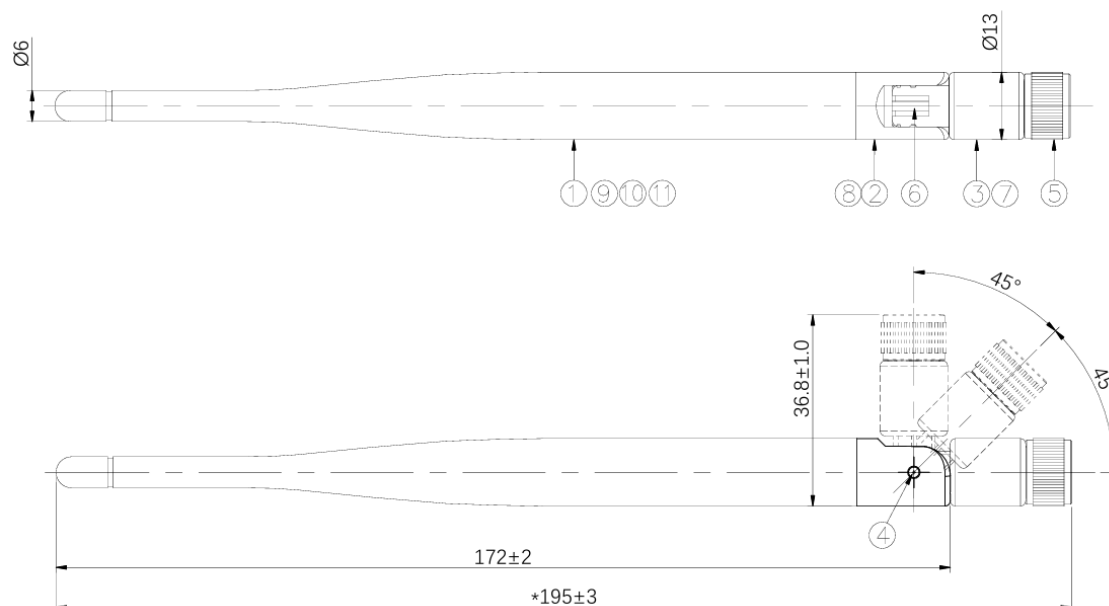
8 Radiation Patterns at 1880 MHz



9 Radiation Patterns at 2600 MHz



10 Mechanical Drawing



All dimensions in mm

11 Materials

No.	Part	Description	Qty
1	Antenna Body	TPEE, Color: Black	1
2	Antenna Base	PC / PC+PBT, Color: Black	1
3	Antenna Base	PC+PBT, Color: Black	1
4	Rivet	POM, Color: Black	2
5	Connector	Big SMA, Male; black plastic screw sleeve	1
6	Cable	RG-178 50 Ohm, translucent brown	1
7	Tube	Heat shrinking tube with glue, Black	1
8	O-ring	O-ring	1
9	Tube	Brass tube, $\varnothing 5.5$ mm	1
10	Wire	Copper wire, $\varnothing 0.6$ mm	1
11	Tube	Heat shrinking tube, Black	1

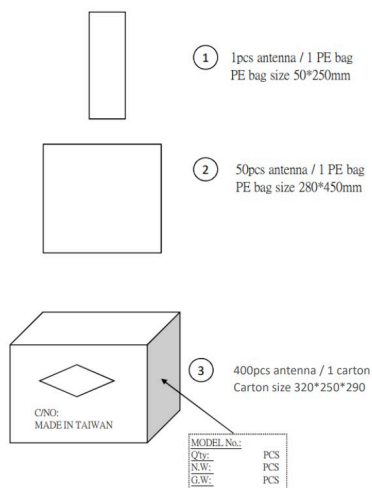
12 Construction Notes

- ◆ Waterproof: IP67
- ◆ These products are in conformity with RoHS 2.0
- ◆ Dimensions marked "*" should be strictly controlled
- ◆ Connector in the product meets salt spray test 48H

13 Product View



14 Packaging



1 pc antenna per PE bag, PE bag size 50 × 250 mm.

50 pcs antennas per PE bag, PE bag size 280 × 450 mm.

400 pcs antennas per carton, carton size 320 × 250 × 290 mm.

15

Compliance

ROHS

Compliant

Conforms to EU RoHS Directive 2011/65/EU as amended by Delegated Directive (EU) 2015/863.

REACH

Compliant

Conforms to EU REACH Regulation (EC) No 1907/2006.

CERTIFICATE

On request

A certificate of conformance is available upon request from sales@synzen.com.tw.

Synzen Precision Technology Ltd makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Synzen reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.