



SYNZEN

PRODUCT DATASHEET

EUROPA | DUAL POLARIZATION CEILING ANTENNA | 433-6000MHz

Part Number / Name

- SZW-N-3L35
- EUROPA

Description

- 433-6000MHz Panel Mount Dual Polarized Antenna
- N-Type connectors

Features

- High Gain
- ABS
- Dimensions: Ø236.0 x 95.0 (mm)



Contents

Introduction	3
General Specifications.....	4
RF Characteristics.....	5
Radiated Performance 3D – 400-780MHZ.....	6
Radiated Performance 3D 400-780MHZ.....	6
Radiated Performance 3D 840 -2400MHZ.....	7
Radiated Performance 3D 2500-5850MHZ.....	8
Mechanical.....	9
Environmental.....	10

Introduction

Introducing EUROPA MIMO Ceiling Mount Antenna from Synzen: Your Solution for In-Building Connectivity Challenges

The EUROPA MIMO antenna, specifically designed for indoor distributed antenna systems (iDAS), offers a high-performance solution to tackle in-building coverage issues and the ever-increasing demand for uninterrupted connectivity. This compact circular ceiling mount antenna minimizes Passive Inter-Modulation (PIM) and is engineered to excel in a variety of scenarios.

Key Features:

- Comprehensive 5G/4G LTE MIMO coverage with worldwide compatibility
- Extensive coverage across 3G and 2G bands
- Streamlined and effortless installation process

Why Choose iDAS Networks?

iDAS networks provide an ideal answer to extend LTE coverage to areas beyond the reach of traditional base stations. EUROPA MIMO antenna is an invaluable addition for:

- Stadiums, Arenas, Convention Centers
- Hotels, shopping malls, Hospitals
- Factories, Warehouses
- Airports, Train Stations, Bus Stations
- Schools, College Campuses
- Office Buildings, High-Density Residential Complexes

Meeting the Demands of 5G and 4G LTE: With the surging demand for high-speed data uplink and downlink in 5G and 4G LTE applications, it has become imperative to employ high-efficiency, high-gain MIMO antennas. These antennas are essential in achieving the required signal-to-noise ratio and throughput to address these challenges effectively.

Ensuring Quality and Reliability: The EUROPA MIMO antenna is designed with a focus on high isolation between its two MIMO antennas, preventing self-interference.

Choose EUROPA MIMO Ceiling Mount Antenna for exceptional in-building coverage, seamless connectivity, and uncompromised performance.



Electrical / RF Specifications*

Part Number	SZW-C-3L35
Name	EUROPA
Dimensions	Ø236.0 x 95.0 (mm)
Weight	-
Antenna Type	Ceiling Mount Dual Polarization (2 port)
Material	ABS

Band	Frequency Range (MHz)	Impedance	Polarization
B31,72,73	400-470	50Ω	Linear
B5,8,12,13	600-960		
B1,2,3,4,9,21,32,74,75,76, 23,35,39,66	1400-2200		
B7,38,40,41	2300-2700		
B46,47	5150-5850		

Environmental Specifications

Operational Temperature	-20 to +65 (°C)
Storage Temperature	-30 to +75 (°C)
Relative Humidity	65°C 95% RH
IP Rating	IP54
RoHs & REACH compliant	Yes

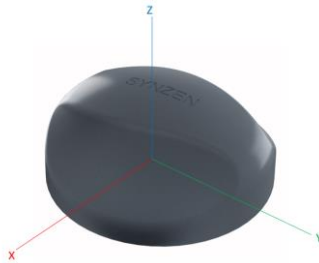
RF Characteristics

Efficiency / Peak Gain

Frequency (MHz)	Port 1		Port 2	
	Efficiency (%)	Peak Gain (dBi)	Efficiency (%)	Peak Gain (dBi)
400	46.0	1.35	50.2	1.74
433	62.8	2.25	64.6	2.31
470	87.2	2.31	86.0	2.20
510	83.9	3.76	80.6	3.32
600	75.5	3.27	77.2	3.38
780	90.0	4.35	88.4	4.04
840	86.8	4.05	85.9	4.07
920	81.7	5.25	81.1	4.90
1400	80.9	5.35	83.7	5.59
1800	80.2	5.04	84.8	5.76
2100	82.7	6.06	85.1	6.75
2400	83.5	5.33	91.2	5.71
2500	91.2	5.92	91.0	5.55
5150	87.7	5.90	86.3	5.81
5350	83.1	5.51	84.9	5.66
5725	87.2	5.73	90.4	6.01
5850	89.9	5.84	93.2	6.50

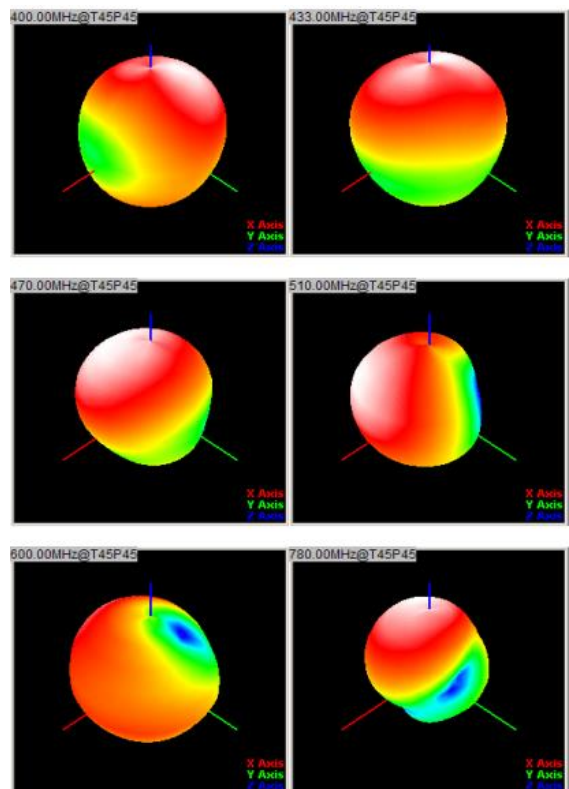
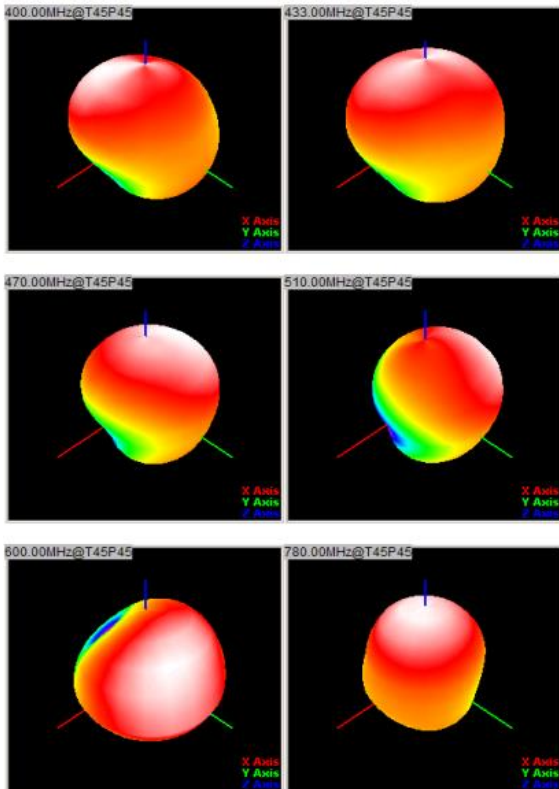


Radiated Performance 3D – 400-780MHZ

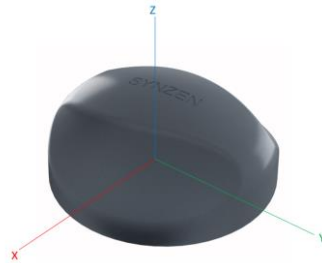


Port 1

Port 2

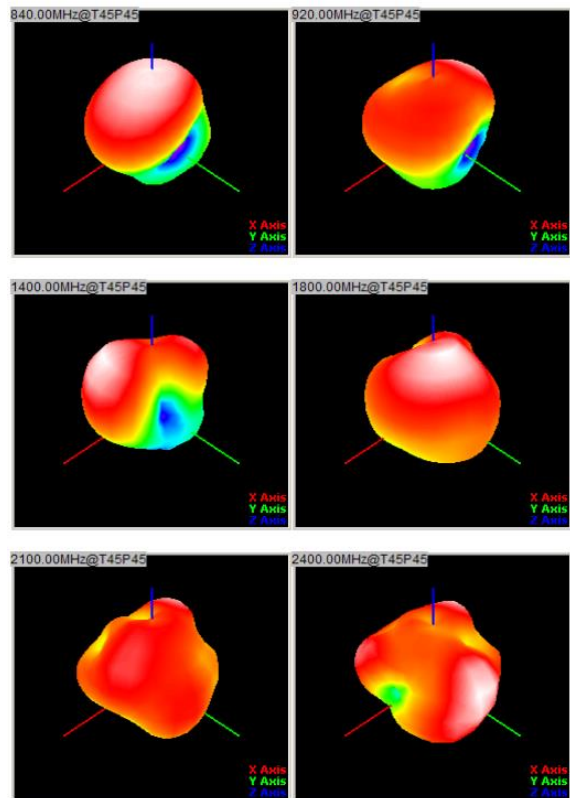
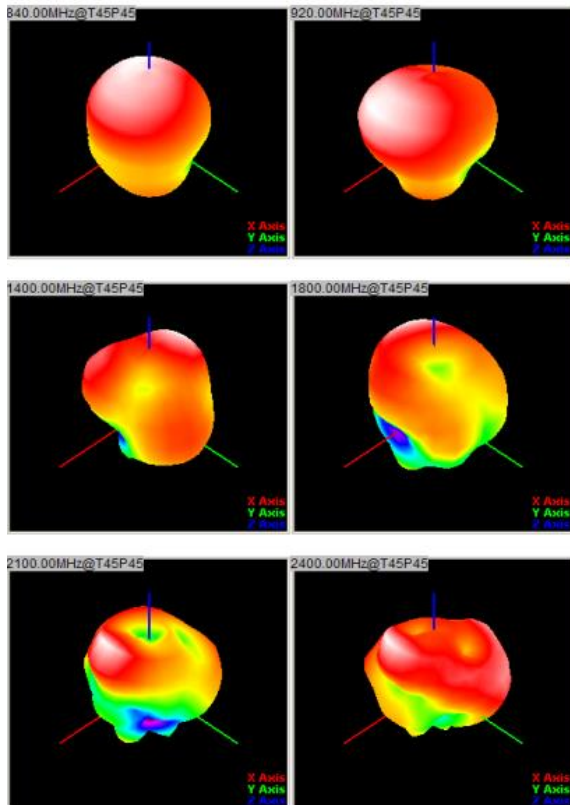


Radiated Performance 3D 840 -2400MHZ

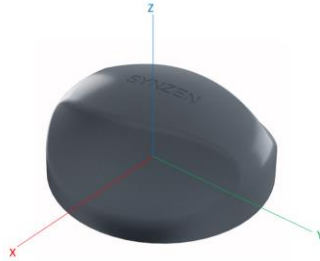


Port 1

Port 2

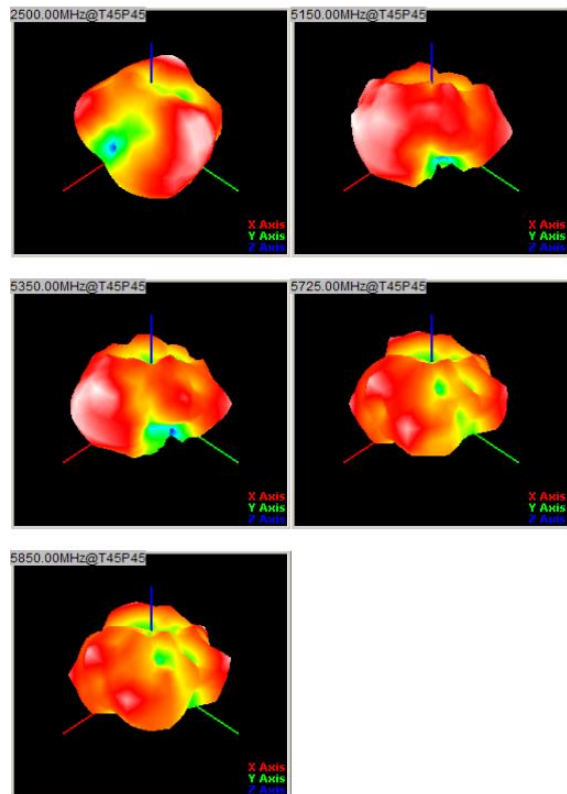
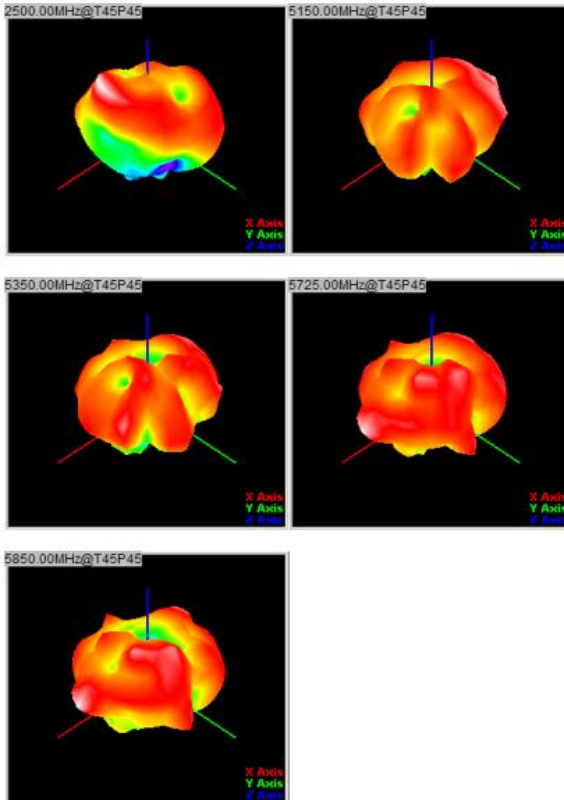


Radiated Performance 3D 2500-5850MHZ



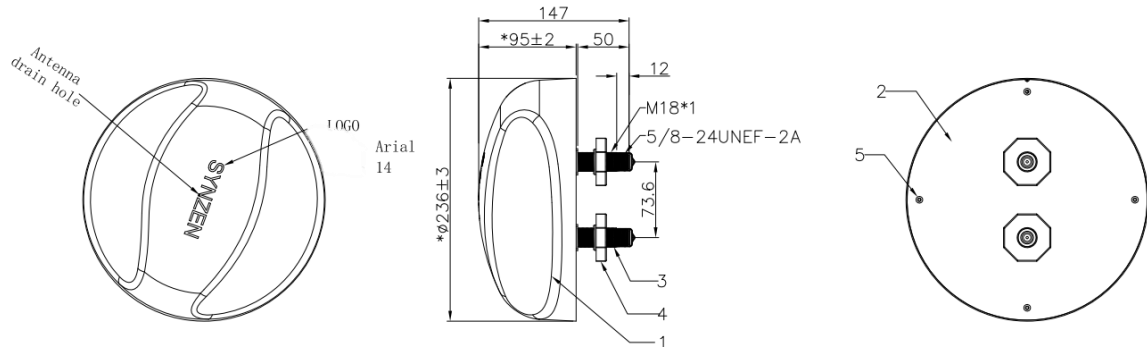
Port 1

Port 2

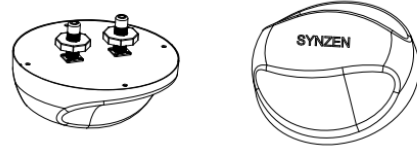


Mechanical

Antenna Mechanical Drawing



5	Screw	M3 Tapping Screw	4
4	Nut	PA; Natural Color	2
3	Connector	N-Female	2
2	Reflecting Plate	AL; T=1.5mm	1
1	Antenna Cover	ABS 757K; Color: White	1



Environmental

Material Regulation

The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available upon request.



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