

Solwise Ltd

**23dBi 5GHz antenna
for R2 relay unit.**



ZYGMA7



ZyGMA7 from *Solwise*

Backbone Panel, Outdoor Backbone Panel Directional Antenna, 5.4~5.85GHz, 23dbi, 10° Coverage Angle, N-type Female Connector, with 1m Male-to-male Coaxial Cable, -40 ~ 80 °C, Pole Mount & Wall Mount

Product Overview

The Z9500-5G23 is an external 23dBi High Gain Directional Panel Antenna for wireless Backbone over 5GHz. It is required when using the second radio on the R2 Backbone/Relay unit.

Application

Installation Tips: V-Cut Board and Spacing

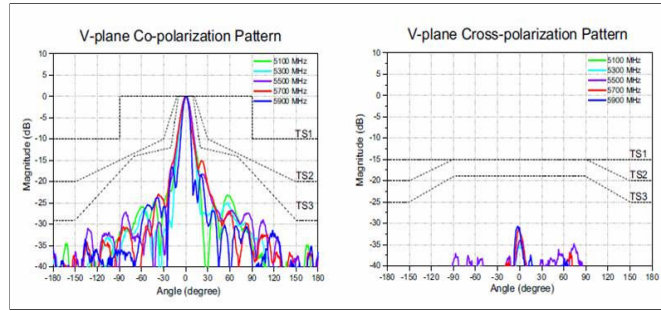
- To reduce signal interference, the V-type isolation board on the Backbone Panel external antenna should be located between Backbone Repeater R2 device and the Backbone Panel external antenna.
- To minimize the influence of obstacles, signal interference or reflections, install all the external antenna at least 30 cm away from the Backbone Repeater R2

Key Features

- High-gain: 23dBi
- High Reliability & Long Distance Connectivity
- Industrial Design for -40 ~ 80 °C Operating Temperature
- IP 67 Enclosure (Level 7 Waterproof)
- Level 17 Beaufort Scale
- Provide a vent to exclude moisture
- Wall-Mountable & Pole-Mountable with Mounting Adjustment Mechanism
- V-Cut Partition Board to Isolate Adjacent Antenna with more than 100% throughput Enhancement



V-Plane of the Antenna



Z9500-5G23

Feature Descriptions

- High-gain: 23dBi
- High Reliability & Long Distance Connectivity
- Industrial Design for -40 ~ 80 °C Operating Temperature
- IP 67 Enclosure (Level 7 Waterproof)
- Level 17 Beaufort Scale
- Provide a vent to exclude moisture
- Wall-Mountable & Pole-Mountable with Mounting Adjustment Mechanism
- V-Cut Partition Board to Isolate Adjacent Antenna with more than 100% throughput Enhancement

Related Products

PartNo	Stock Code	Description
Z9024L-BGN-v2	ZY-FIGHTERN2	Fighter N2 , 802.11 b/g/n 150Mbps High-gain Outdoor Wireless AP/CPE, with 1T1R Built-in 10dbi Panel Antenna, External SMA Antenna Connector, 1LAN + 1WAN, Passive PoE, -30°C ~ 55°C
Z9024-BGN	ZY-FEATURAN2	Featura N2 , 802.11 b/g/n 150Mbps High-gain Outdoor Wireless AP/CPE, with 1T1R Built-in 8dbi Antenna and External Antenna Connector, 1LAN, Passive PoE, -20°C ~ 70°C (High-end Model)
Z9050L-AN	ZY-FIGHTERN5	Fighter N5 , 802.11 a/n 150Mbps High-power Outdoor Wireless AP/CPE, with 1T1R Built-in 14dBi Panel Antenna, External SMA Antenna Connector, Dual 10/100Mbps RJ45 interfaces(LAN Port & WAN Port), -30°C ~ 60°C. UK Band B and Band C legal.
Z9050-AN	ZY-FEATURAN5	Featura N5 , 802.11 a/n 300Mbps High-gain Outdoor Wireless AP/CPE, with 2T2R Built-in 14~16dBi dual-polarity Antenna and Dual External Antenna Connectors, Dual 10/100Mbps RJ45 interfaces, PoE out to secondary device for applications such as IP Surveillance, -20°C ~ 70°C (High-end Model). UK Band B and Band C legal.
Z9000R1	ZY-BACKR1	Backbone R1 , Outdoor Backbone Repeater R1 with one Radio(54Mbps 5G 802.11a), High-gain, Long Distance, -30 ~ 70 °C. UK Band B and Band C legal.
Z9000R2	ZY-BACKR2	Backbone R2 , Outdoor Backbone Repeater R2 with Dual Radio(54Mbps 5G 802.11a), High-gain, Long Distance, -30 ~ 70 °C. UK Band B and Band C legal.
Z9500-5G23	ZY-BACK23PN	Backbone Panel , Outdoor Backbone Panel Directional Antenna, 5.4~5.85GHz, 23dbi, 10° Coverage Angle, N-type Female Connector, with 1m Male-to-male Coaxial Cable, -40 ~ 80 °C, Pole Mount & Wall Mount - used with the R2 relay unit.

Specifications

Electrical Specification

Frequency range & Gain	5150-5250 MHz	21.5 dBi
	5250-5875 MHz	22-23 dBi
VSWR	2.0:1 (max.)	
Polarization	Linear, Vertical	
Horizontal HPBW	9°- 11.5°	
Vertical HPBW	8°- 12°	
Standard compliance	Co-pol. ETSI EN 302 085 V1.2.3 TS1-TS3	
	Cross-pol. ETSI EN 302 085 V1.2.3 TS1-TS3	
Front-to-back ratio	34 dB (min.)	
Input impedance	50 Ohm	
Connector	N Jack	
Power handling	5 W (cw)	
Lightning protection	DC ground	

Environmental & Mechanical Characteristics

Survival wind speed	216 km/hr
Temperature	-40°C to +80°C
Humidity	95% @ 55°C
Color	Gray-white
Housing material	PC, UV resistant
Weight*	1.2 kg
Dimensions	320 x 320 x 43 mm
Waterproof	IP67
Mounting Kit	Pole mount & Wall mount

The product specifications are subject to change without prior notice.

Solwise Ltd

www.solwise.co.uk

sales@solwise.co.uk

ZyGMA7 Communications Corp.

ZYGMA7