



Specification

SPECIFICATION

- Part No. : SA.PANEL.21
- Spec No. : 3021
- Product Name : **16.5dBi Vertical Polarized 90° Sector Antenna
4900-5900MHz**
- Dimensions : 430*70*70mm
- Features : Excellent Radiation Patterns
Wide Bandwidth with high gain across the band
UV Stabilised Radome with Stainless steel Brackets
RoHS Compliant



REVISION STATUS

Version	Date	Page	Revision Description	Prepared	Approved
01	Aug 12th 2009	All	New Product	TW Product Centre	Ronan Quinlan



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1.0 Introduction

This broadband vertically polarized base-station antenna is designed for sectored applications offering superior Azimuth and Elevation pattern control across the entire frequency band. These antennas are aesthetically pleasing while maintaining a rugged design.

Applications:- Base-station Antennas, Point to Multi-Point Solutions, 802.11 Wi-Fi.

2.0 Antenna Performance

2.1 Electrical Specifications

No.	Parameter	Specification
1	Communication System	Wireless LAN
2	Frequency Band	4900-5900 MHz
3	Return Loss	>14dB
4	Gain	16.5 dBi
5	Impedance	50 Ohm
6	Polarization	Vertical
7	Max Power Handling	50W
8	Horizontal Beamwidth	90°
9	Vertical Beamwidth	7°
10	Front to Back Ratio	>25dB
11	Upper Sidelobe Suppression	>18dB
12	Electrical Downtilt	0°

2.2 Mechanical Specifications

No.	Parameter	Specification
1	Connector	N Type Female
2	Connector Location	Bottom
3	Dimensions (L*W*D)	430*70*70mm
4	Weight	2kg
5	Radome	UV Stabilised ASA
6	Mounting	Adjustable pipe mount (included)

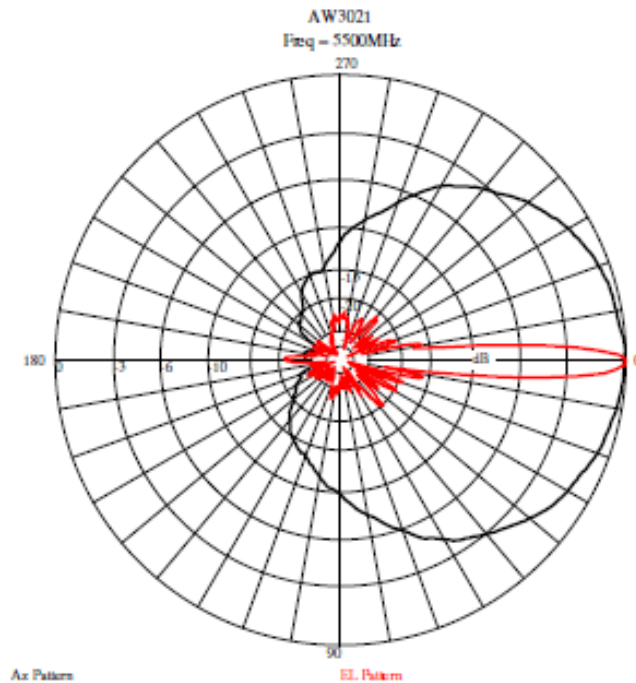


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2.3 Environmental Ratings

No.	Parameter	Specification
1	Rated Wind Velocity	200km/h (125mph)
2	Lightening Protection	DC Grounded
3	Temperature	-40°C to +70°C

3.0 Performance



Typical Azimuth and Elevation Pattern