

## SECTOR 50016V - 16dBi Sector Antenna

### Key Features:

- 16 dBi Sectoral Gain
- High Quality Construction
- Vertical Polarization
- Great Impedance Matching
- **ULTRA LOW SIDELOBES**
- Built in lightning protection
- 5 Years Warranty
- Heavy-Duty Mounting Elements

### Applications:

- 5 GHz Band Wireless LAN
- IEEE 802.11a WLAN Systems
- Point to Multipoint Applications
- Base Station Antennas
- WiFi

### Description

Sector antenna working in 5 GHz band with 16 dBi gain and vertical polarization. Because of reduced sidelobes, antenna keeps clear strong signal even in crowded radio environment. It's resistant to interference from other networks and does not disrupt to other. Antenna features no beam squint due to frequency change, it means that decreasing of data throughput or even loss of a link after frequency channel change does not occur. Perfectly designed for operation under severe weather conditions. A proper materials allow operation in the salt water environment without corrosion. High quality construction of pole mounting elements guarantees an easy elevation adjust.

### Electrical Properties

|                          |                 |
|--------------------------|-----------------|
| Frequency                | 4900 – 6000 MHz |
| Gain                     | 16 dBi          |
| Polarization             | Vertical        |
| Beamwidth deg horizontal | 90°             |
| Beamwidth deg vertical   | 8°              |
| VSWR                     | < 1.4           |
| Impedance                | 50 Ohm          |
| Sidelobe suppression     | > 20 dB         |
| Front to back ratio      | > 25 dB         |
| Lighting protection      | DC ground       |

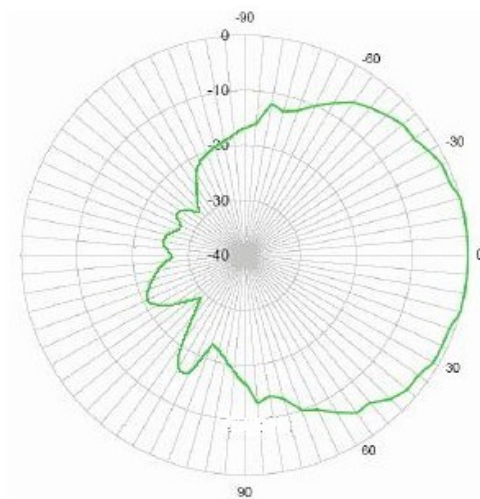


Mechanical Properties

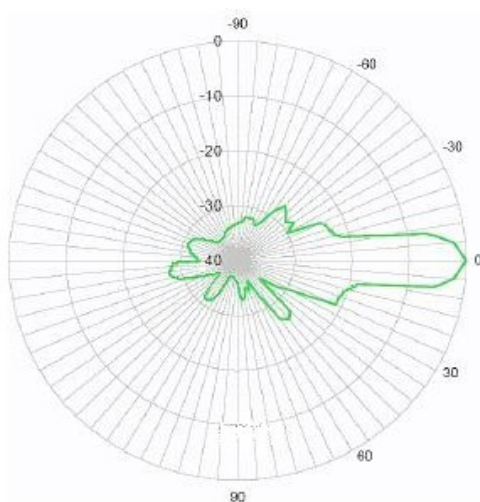
|                 |                              |
|-----------------|------------------------------|
| Technology      | Microstrip                   |
| Input Connector | N-type / female              |
| Dimensions      | 450x93x18 mm / 18x3.7x0.7"   |
| Weight          | 0.6 kg / 1.3 lbs             |
| Radome material | UV – resistant plastic       |
| Color           | White                        |
| Base material   | High quality aluminium alloy |
| Construction    | All – weather operation      |
| Mounting Kit    | 50.8 mm / 2"                 |

Antenna Patterns

Azimuth



Elevation



**VSWR**

VNA Measurement Data

VNA

