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## Vertically Polarized Sector Antennas 2300 to 2700 MHz Operation

The 60deg, 90deg and 120deg vertically polarized base station sector antenna systems offered by Laird Technologies are constructed of UV stable fiber glass radomes. The 45deg sector has a UV Stable ASA plastic radome. The radome construction gives long service life under the most demanding conditions. The antennas are constructed using corrosion resistant metal elements and a unique air dielectric system which are more stable than PCB based antenna systems because they don't absorb moisture, which can degrade the performance of PCB based antenna systems. The sectors come with a stainless steel scissor bracket mounting system for ease of installation and alignment.

### Features and Benefits:

- Vertically polarized wide band performance
- 45, 60, 90 and 120 deg models with gains from 16dBi to 20dBi
- Type N female integrated connector
- Extremely rugged for long service life in extreme environments
- Weatherproof

### Applications

- WiMAX applications
- Base station antennas
- 802.11b and 802.11g wireless systems
- Point to multi-point systems
- Broadband wireless access
- MMDS applications

For sales information:

Telephone 801-572-3024

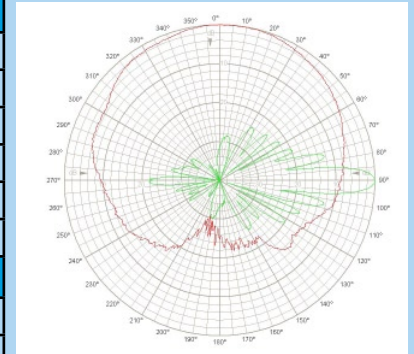
E-Mail [sales@pacwireless.com](mailto:sales@pacwireless.com)

or visit: [www.pacwireless.com](http://www.pacwireless.com)

## Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	2300		2700	MHz
VSWR		1.5:1		
Impedance		50		OHM
Input Power			50	W
Pole Diameter (OD)	1" (25)		2" (50)	Inch (mm)
Operating Temperature	-40		+70	Deg C
	<b>SA24-45-20-WB</b>	<b>SA24-60-17-WB</b>	<b>SA24-90-17-WB</b>	<b>SA24-120-16-WB</b>
Gain	20 dBi	17 dBi	17 dBi	16 dBi
Horizontal Beam Width	45 deg	60 deg	90 deg	120 deg
Vertical Beam Width	7 deg	8 deg	7 deg	9 deg
Front to Back	25dB	25 dB	20 dB	21 dB
Mechanical Downtilt	30 deg	30 deg	30 deg	30 deg
Weight	8.4lb (3.8kg)	6.6lb (3kg)	6.6lb (3kg)	6.6lb (3kg)
Dimensions (LxWxH)	34 x 7 x 3.5" (864x178x89mm)	33.5 x 6.5 x 2.5" (851x165x64mm)	33.5 x 6.5 x 2.5" (851x165x64mm)	33.5 x 6.5 x 2.5" (851x165x64mm)

## Antenna Patterns



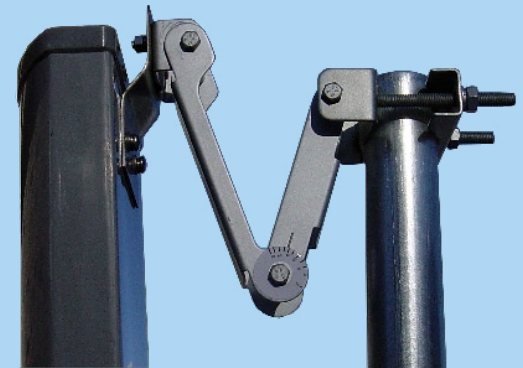
Typical azimuth and elevation pattern  
SA24-90-17-WB

## Wind Loading (Lbs.)

Model	Sq. In	100MPH	125MPH	100MPH 1/2" radial ice
SA24 WB	247	61.8 lb	96.5 lb	62 lb

## System Ordering:

SA24-45-20-WB	45deg 20dBi 2300-2700MHz VPOL sector antenna
SA24-60-17-WB	60deg 17dBi 2300-2700MHz VPOL sector antenna
SA24-90-17-WB	90deg 17dBi 2300-2700MHz VPOL sector antenna
SA24-120-16-WB	120deg 16dBi 2300-2700MHz VPOL sector antenna



## Notes:

- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty



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*Specifications subject to change without notice.*