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local support™

Vertically Polarized Sector Antennas 2400 to 2485 MHz Operation

The vertically polarized sector antenna systems offered by Laird Technologies are constructed of UV stable fiberglass radomes for extremely long service life in 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 14dB sectors come with a stainless steel scissor bracket system for ease of installation and alignment. The 9dBi sector comes with a galvanized steel bracket with stainless steel hardware.

Features and Benefits:

- Vertically polarized
- 90 deg, 120 deg and 180deg models with gains from 9dBi to 14dBi
- Type N female integrated connector
- Extremely rugged for long service life in extreme environments
- Weatherproof

Applications

- 2.4 GHz ISM band applications
- 802.11b and 802.11g wireless systems
- WiFi base station antennas
- Point to multi-point Systems
- Wireless Internet

For sales information:

Telephone 801-572-3024

E-Mail sales@pacwireless.com

or visit: www.pacwireless.com

Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	2400		2485	MHz
Input Return Loss (S11)		-14		dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			100	W
Pole Diameter (OD)	1" (25)		2" (50)	Inch (mm)
Operating Temperature	-40		+70	Deg C
2400-2485 MHz	SA24-90-9	SA24-120-9	SA24-180-14	
Gain	9.5 dBi	9 dBi	14 dBi	
Horizontal Beam Width	90 deg	120 deg	180 deg	
Vertical Beam Width	30 deg		10 deg	
Front to Back	25 dB		25 dB	
Mechanical Downtilt	45 deg		10 deg	
Weight	25oz (0.7kg)		11lb (5kg)	
Dimensions (LxWxH)	10" x 6.5" x 2.5" (254 x 165 x 63.5mm)		40" x 10.25 x 7 (1020 x 260 x 180mm)	

Wind Loading				
Model	Sq. In	100MPH	125MPH	100MPH 1/2" radial ice
SA24-xx-9	65	16.3 lb	25.4 lb	17 lb
SA24-180-14	400	100 lb	156 lb	102 lb

System Ordering:

SA24-90-9	9dBi 90deg 2.4GHz VPOL sector antenna
SA24-120-9	9dBi 120deg 2.4GHz VPOL sector antenna
SA24-180-14	14dBi 180deg 2.4GHz VPOL sector antenna

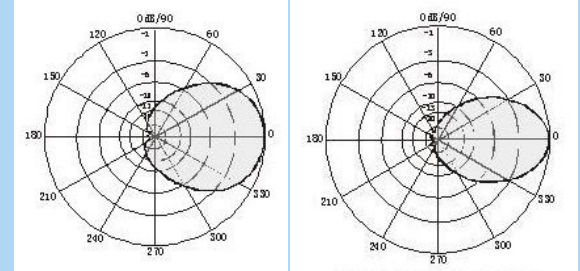
Notes:

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

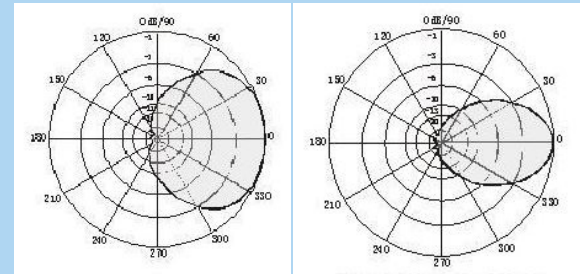
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Specifications subject to change without notice.

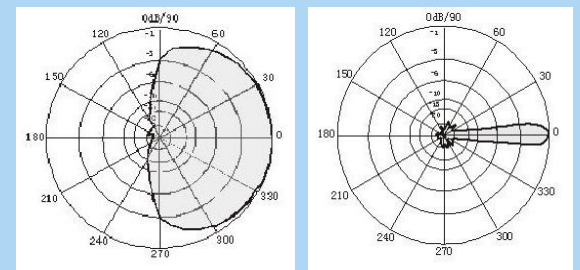
Antenna Patterns



SA24-90-9



SA24-120-9



SA24-180-14

