

### Vertically Polarized Sector Antennas

### 2400 to 2485 MHz Operation

#### Features

- Vertically Polarized
- 90 deg, 120 deg and 180deg models with gains from 9dBi to 17dBi
- 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
- Point to Multi-point Systems
- Base Station Antennas
- Wireless Broadband Systems
- WiFi Access Points

#### Description

The Vertically Polarized Sector antenna systems offered by Pacific Wireless 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 14 and 17dB 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.

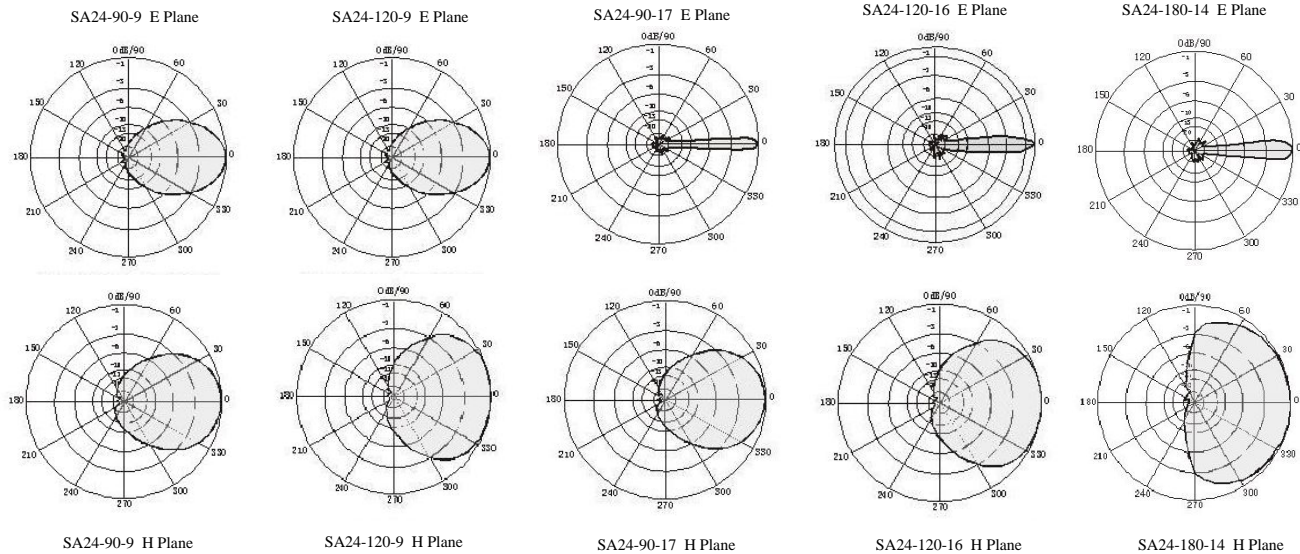
#### Specifications

Parameter	Min	Typ	Max	Units
<b>Frequency Range</b>	2400		2485	MHz
<b>Input Return Loss (S<sub>11</sub>)</b>		-14		dB
<b>VSWR</b>		1.5:1		
<b>Impedance</b>		50		OHM
<b>Input Power</b>			100	W
<b>Pole Diameter (OD)</b>	1" (25)		2" (50)	Inch (mm)
<b>Operating Temperature</b>	-40		+70	Deg C



2400 – 2485 MHz	SA24-90-9	SA24-120-9	SA24-90-17	SA24-120-16	SA24-180-14
<b>Gain</b>	9.5 dBi	9 dBi	17 dBi	16.4 dBi	14 dBi
<b>Horizontal Beam Width</b>	90 deg	120 deg	90 deg	120 deg	180 deg
<b>Vertical Beam Width</b>	40 deg		7 deg		10 deg
<b>Front to Back</b>	25 dB		25 dB		25 dB
<b>Mechanical Downtilt</b>	45 deg		10 deg		10 deg
<b>Weight</b>	25oz (0.7kg)		9.9lb (4.5kg)		11lb (5kg)
<b>Dimensions (LxWxH)</b>	10" x 6.5" x 2.5" (254 x 165 x 63.5mm)		38" x 6.5" x 2.5" (965 x 165 x 63.5mm)		40" x 10.25 x 7 (1020 x 260 x 180mm)

Antenna Patterns at 2.4GHz



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-xx-17	247	61.8 lb	96.5 lb	62 lb
SA24-180-14	400	100	156	102

### Notes:

- All shipments F.O.B. Pacific Wireless Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

**System Ordering:** SA24 -    -

#### Horizontal Beamwidth

90 = 90deg

120 = 120deg

180 = 180deg

#### Antenna Gain

9 = 9dBi

14 = 14dBi

16 = 16dBi

17 = 17dBi



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