



### 2300-2700 MHZ VERTICALLY POLARIZED BASE STATION SECTOR ANTENNA

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

- 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

#### MARKETS

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

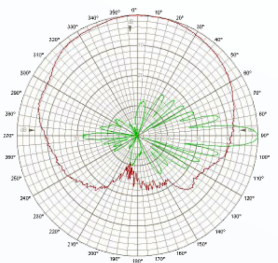
PARAMETER	SA24-45-20-WB	SA24-60-17-WB	SA24-90-17-WB	SA24-120-16-WB
Frequency range	2300 - 2700 MHz	2300 - 2700 MHz	2300 - 2700 MHz	2300 - 2700 MHz
VSWR	1.5:1	1.5:1	1.5:1	1.5:1
Impedance	50 ohm	50 ohm	50 ohm	50 ohm
Input power	50W	50W	50W	50W
Pole diameter (OD)	1" - 2" (25-50mm)	1" - 2" (25-50mm)	1" - 2" (25-50mm)	1" - 2" (25-50mm)
Temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Gain	20 dBi	17 dBi	17 dBi	16 dBi
Horizontal beamwidth	45°	60°	90°	120°
Vertical beamwidth	7°	8°	7°	9°
Front-to-back	25 dB	25 dB	20 dB	21 dB
Mechanical downtilt	30°	30°	30°	30°
Weight	8.4 lbs (3.8 kg)	6.6 lbs (3 kg)	6.6 lbs (3 kg)	6.6 lbs (3 kg)
Dimensions (L x W x H)	34" x 7" x 3.5" (864 x 178 x 89mm)	33.5" x 6.5" x 2.5" (851 x 165 x 64mm)	33.5" x 6.5" x 2.5" (851 x 165 x 64mm)	33.5" x 6.5" x 2.5" (851 x 165 x 64mm)

#### WIND LOADING

MODEL	SQ. IN	100 MPH	125 MPH	100 MPH 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



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



#### ANT-DS-SA24WB 0716

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