Laird TECHNOLOGIES®

Innovative **Technology** for a **Connected** World

SA24-180-12
Vertically Polarized Sector Antennas

VERTICALLY POLARIZED SECTOR ANTENNAS 2400 TO 2485 MHz OPERATION

The vertically polarized 180° sector antenna system offered by Laird Technologies is 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 is more stable than PCB based antenna systems because they don't absorb moisture. The 12 dBi sectors come with a stainless steel tilt bracket system for ease of installation and alignment. The antennas can be mounted anywhere along the length of a mounting pole which increases installation flexibility.

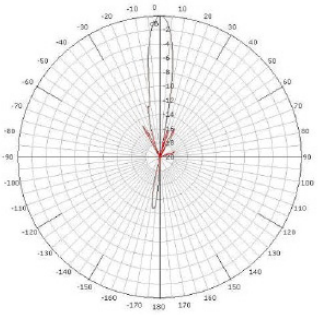
FEATURES ✓RoHS

- Vertically polarized
- 180° horizontal 3 dB beamwidth, 12 dBi gain
- Type N female integrated connector
- Stainless steel tilt bracket for up or down tilt
- Low cost weatherproof sector antenna system

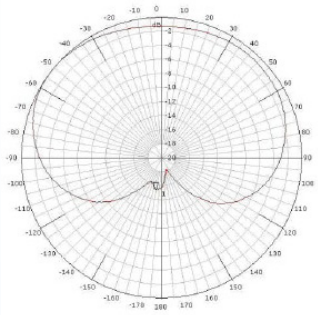
MARKETS

- 2.4 GHz ISM band applications
- 802.11b and 802.11g wireless systems
- Base station antennas
- Point to multi-point systems
- WLAN access points
- WiMAX

PARAMETER	SPECIFICATIONS
Frequency range (MHz)	2400 - 2485
VSWR (Typical)	1.5:1
Impedance (ohms)	50
Input Power (watts)	100 Typical
Pole Diameter in (mm)	1 - 2 (25 - 50) OD
Operating Temperature (°C)	-40° to +70°
Gain	12 dBi
Horizontal beamwidth	180°
Vertical beamwidth	10°
Front-to-Back	>15 dB
Mechanical Tilt	+/-10°
Antenna Weight lbs (kg)	3 (1.4)
Dimensions in (mm)	40 x 3 x 3 (1016 x 76 x 76)
Wind Loading 120 in^2	30 @ 100 mph 47 @ 125 mph 32 @ 100 mph 1/2" radial ice



E-Plane

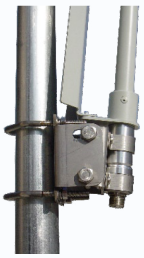


H-Plane

MARKETS

SA24-180-12 12 dBi 180° 2.4 GHz VPOL sector antenna

Bracket uptilt close up



Bracket downtilt close up

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ANT-DS-SA24-180-12 0611

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