

Instruction Sheet

SA24 Vertically Polarized Sector Antennas 2400 to 2485 MHz Operation

Step 1: The high gain models come with a scissor bracket and the low gain models come with a standard tilt bracket.

Step 2: Scissor Bracket: Install to pole. Set rotation and tighten the top and bottom brackets to the pole. Adjust tilt per the tilt indicator and then tighten 3 sets of bolts to fix the tilt position.

Step 3: Standard Tilt Bracket: Decide if uptilt or downtilt is needed. Install tilt bracket in correct orientation to provide the necessary uptilt or downtilt. Attach bracket using 3 nuts. Install to pole using V block pole clamp and U-Bolt. Adjust to desired rotation and angular position and then tighten U-Bolt nuts.



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	SA24-90-17	SA24-120-16
Gain	9.5 dBi	9 dBi	17 dBi	16.4 dBi
Horizontal Beam Width	90 deg	120 deg	90 deg	120 deg
Vertical Beam Width	40 deg		7 deg	
Front to Back	25 dB		25 dB	
Mechanical Downtilt	45 deg		10 deg	
Weight	25oz (0.7kg)		9.9lb (4.5kg)	
Dimensions (LxWxH)	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)	

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

Antenna Patterns at 2.4GHz

