Instruction Sheet

PA58 Flat Panel Tri-Band Antenna
5150 to 5850 MHz Operation

Step 1: Decide if Horizontal Polarity (HPOL) or Vertical Polarity (VPOL) is required. The polarity is changed by mounting the bracket to different screw positions on the back of the antenna. Follow the indicator label. Also you can see the orientation using the embossed feature on the front of the antenna. When the large embossed line is vertical, the antenna is vertically polarized.

Step 2: Assemble the bracket to the antenna using two screws provided.

Step 3: Install the antenna assembly to the pole using the bracket clamp. Note: the antenna can also be surface mounted by removing the pole clamp and installing the bracket to a wall using lag bolts.

Step 4: Adjust rotation and tighten the pole clamp. Adjust tilt and then tighten the two tilt adjustment bolts.

Step 5: Attach the RF cable to the antenna N Female connector. Waterproof the connection using self annealing rubber tape (or equivalent) and then wrapping with electrical tape.

Pole Mount

Surface Mount

Specifications

Parameter	Model	Min	Typ	Max	Units
Frequency Range		5150		5850	MHz
Gain	PA58-19 PA58-24		19 24		dBi
Horizontal Beamwidth	PA58-19 PA58-24		16 8		Deg
Vertical Beamwidth	PA58-19 PA58-24		16 8		Deg
Front to Back	PA58-19 PA58-24	30 40			dB
Cross Polarization			25		dB
Input Return Loss (S_{11})			-14		dB
VSWR			1.5:1		
Impedance			50		OHM
Input Power				100	W
Operating Temperature		-40		+70	Deg C
Pole Size		1” (25)		2.5” (64)	In (mm)
Weight	PA58-19 PA58-24	17.6 (0.5) 60 (1.7)			oz (kg)
Dimension *(Dia x Depth)*	PA58-19 PA58-24	7.5” x 7.5” x 0.8” (190 x 190 x 20) 15.4” x 10.6” x 0.8” (390 x 270 x 21)			In (mm)
Bracket Tilt		45			Deg

Wind Loading				
Model	**Sq. In**	**100MPH**	**125MPH**	**100MPH with 1/2" radial ice**
PA58-19	56	14 lbs	22 lbs	14 lbs
PA58-24	163	41 lbs	64 lbs	41 lbs

Antenna Patterns