Directional Antennas, Sector Panels 5 GHz Systems

PS Series 5 GHz Sector Antenna

Adjustable Pole Mount Bracket

Optional Wall Mount Bracket

- Weatherproof for outdoor use; compact and attractive for inbuilding
- High gain performance (10 dBi - 14 dBi)
- Available in 45°, 60°, 90° and 120° sector
- Adjustable tilt pole mount; optional wall mount adapter

Developers of new 5 GHz data systems will appreciate the PS Series sector antennas. These antennas are excellent for deploying point to point backhaul, or for multipoint applications. This antenna design uses the latest PCB technology for high performance, lower cost and compact size. In addition to 5 GHz WiFi, these antennas can be deployed in smart highway or DSRC applications.

Models are available in several sector configurations with different gain factors. Model PS14-5500-45 provides 14 dBi gain with a 45 degree sector. This model is also an excellent choice for point to point, being only a fraction of the size of a parabolic. Model PS12-5500-60 provides 12 dBi gain, and provides a 60 degree sector. Model PS11-5500-90 provides 11 dBi gain, and a corresponding 90 degree sector. Model PS10-5500-120 provides gain of 10 dBi, yet allows a generous 120 degree sector. Front to back ratio on all models is maintained at better than 25 dB. This allows true sectorization, or alternatively to isolate services to different areas.

These antennas are compact. Conventional pole mounting can be used, for quick and uncomplicated network deployment. Surface/wall mounting is also accommodated with an optional assembly. The adjustable tilt mounting bracket allows easy alignment. Pole mounted, the antenna can be adjusted 360 degree around the pole, as well as 45 degree vertical downtilt.

The antenna housing is a very attractive light grey ASA plastic. Compact in size, only 12.5" H x 3" W (32 cm x 7.6 cm), this antenna will be unobtrusive in any indoor or outdoor environment. These models are 100% weatherproof and can withstand the harshest conditions.

The antenna terminates with an integral Female N connector. Mobile Mark can provide jumper cables in a variety of cable/connector types. External lightning protection is recommended (to protect the radio) for outdoor mounting.

Antenna Model Numbers

Model	Gain	Sector Size
PS10-5500-120	10 dBi	120 degree sector
PS11-5500-90	11 dBi	90 degree sector
PS12-5500-60	12 dBi	60 degree sector
PS14-5500-45	14 dBi	45 degree sector
PN-WMK		Optional Wall Mount

Specifications

Frequency:	5.0 - 6.0 GHz
Gain:	See model table
VSWR Max:	2:1
Impedance:	50 Ohm nominal
Max Power:	25 watts
Beamwidth:	
PS10-5500-120	120 degree Az, 11° El
PS11-5500-90	90 degree Az, 12° El
PS12-5500-60	60 degree Az, 12° El
PS14-5500-45	45 degree Az, 11° El
Front to Back Ratio:	25 dB or better
Operating Temp:	-40° to +85° C
Lightning Protection:	External recommended
Max Wind Velocity:	125+ mph (200 kph)
Material:	Light Grey ASA radome
Dimensions:	12.5" H x 3" W (all models) 32 cm x 7.6 cm
Weight:	1 lbs (0.45 kG)
Mounting:	Adjustable pole mount, and Stainless steel U Bolts
Adjustment:	Up to 45 degrees
Optional Wall Mount:	Vert & Horiz adjustment
Connector:	Integral N Female

Custom jumper cables are available upon request