

PS Series 5 GHz Sector Antenna

Directional Antennas, Sector Panels 5 GHz Systems



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 accommodat-

ed 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% weather-proof 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 11º Fl

Operating Temp: -40° to +85° C
Lightning Protection: External recommended

25 dB or better

Front to Back Ratio:

Max Wind Velocity:125+ mph (200 kph)Material:Light Grey ASA radomeDimensions: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

Product Specifications





Universal Wall Mount 2.5" Standoff



Universal Wall Mount 4" Standoff



Universal Wall Mount 12" Standoff



Truck Mirror Mount for Stud Antennas



Wall/Pole Mount for



Trunk Lid Mount Stud Antennas Stud Antennas



Wall Mount for OD Series Antenna

Mounting Accessories & Options

- Universal Wall Mounts available in standoffs of 2.5 inches to 1 foot (5 - 31 cm)
- Truck mirror and trunk lid mounts available for Stud mount antennas
- Wall/Pole mount adapts stud antennas to fixed base station/access point
- L bracket simplifies mounting of OD Series antennas to a wall

Mobile Mark offers the most essential mounts and mounting accessories for most applications.

Universal Base Station Wall Mounts

These universal wall mounts can be used with any model antenna that provides pole mounting hardware. Each kit comes with (2) wall mount brackets and a unifying 2" OD pole (51 mm). To install, simply use your standard antenna pole mount to attach to the vertical pole. Standoffs are available for 2.5", 4" and 12" distances. The 12" stand off version supplies an additional support leg for proper strength. The appropriate hardware should be selected and used for attaching to a side building.

Wall & Pole Mount Adapter Kit

The model RM-MK wall and pole mount can be used to adapt stud mount antennas for use as fixed access point. The RM-MK kit is provided with the ABS wall mount, U-Bolts for pole mounting and a ground plate. When wall mounting, simply utilize the appropriate screws to attach thru the ABS ear holes. The kit can accommodate antennas with stud diameter up to 3/4" and is supplied with a 2.75" ground plate. The kit also supplies a threaded clamping insert for a 5/8-24 thread used in many of our stud mount products.

Truck Mirror Mount

The Truck Mirror Mount (Model SM-MM) can be used to adapt most of Mobile Mark's Stud mount antennas for truck side mirror mounting. The kit comes with the clamping hardware, and a ground plate for proper electrical operation. The ground plate is 2 3/4" diameter (70 mm) aluminum, and the mounting hole can accommodate up to 3/4" stud (19 mm).

Trunk Lid Mount Adapter

The model SM-TM provides vehicle trunk (or hood) lid mounting for our stud mount antennas. The SM-TM provide mounting U shaped tangs (with set screws), that wrap around the trunk surface/weatherstrip. The kit is provided with the bracket and

a ground plate for proper RF electrical operation. The ground plate is 2 3/4" round (70 mm), and can accommodate a stud size of up to 3/4" (19 mm).

Wall Mount - OD Series

The model OD-WMK is a simplified L shaped bracket designed to easily mount the OD Series antennas for wall mounting. The aluminum bracket provides a 5" standoff from a wall, and is supplied with U Bolts for accommodating the 1" diameter (25 mm) of the OD body. The proper wall screws need to be selected for attaching to a wall.

Some models may only be availabe from the USA.

Mounts & Adapters

Model **Description**

Universal Base Station Wall Mounts

ACC-8305 2.5" stand off (64mm) wall mount with pole ACC-102643 4" stand off (102 mm) wall mount with pole ACC-103024 12" stand off (305 mm) wall mount with pole

Wall/Pole Mount Adapter

RM-MK Wall & Pole adapter kit for stud mount antennas

BP-MK Pole/Wall mount for BP Series

Wall Mount

PN-WMK Adjustable wall mount for panels

Pipe Mount

NT-MK L-bracket mount

Mobile Mount

Vehicle Trunk lid mount with ground plate SM-TM SM-MM Truck Mirror mount, with ground plate

Omni Series Mounts

OD-WMK L Bracket for wall mounting OD Series antennas OD-MK Standard Pipe mount; Fits mast up to 2.5" OD