



## Directional DSRC Antennas, Sector Panels, 5.9 GHz Systems

- Weatherproof for outdoor use
- High gain performance (10 dBi - 14 dBi)
- Available in 45°, 60°, 90° or 120° sector

Developers of the new DSRC systems for Intelligent Transportation Systems at 5.9 GHz will appreciate the PS Series sector antennas. These antennas are excellent for deploying point to point backhaul, or for multipoint applications.

Models are available in several sector configurations with different gain factors. Model PS14-5900-45 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 PS12-5900-60 provides 12 dBi gain and a 60 degree sector. Model PS11-5900-90 provides 11 dBi gain, and a corresponding 90 degree sector.

Model PS10-5900-120 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, services can be isolated to different areas.

The PS Series 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 degrees 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 x 1.25" D (32 cm x 7.6 cm x 3.2 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.

| Model #           | Gain                | Sector Size       |
|-------------------|---------------------|-------------------|
| PS10-5900-120-GRY | 10 dBi              | 120 degree sector |
| PS11-5900-90-GRY  | 11 dBi              | 90 degree sector  |
| PS12-5900-60-GRY  | 12 dBi              | 60 degree sector  |
| PS14-5900-45-GRY  | 14 dBi              | 45 degree sector  |
| PN-WMK            | Optional Wall Mount |                   |

| Specifications        |                      |  |   |
|-----------------------|----------------------|--|---|
| Frequency:            | 5.9 - 6.0 GHz        | Material:  | Light Grey Polystyrene  |
| Gain:                 | See model table      | Dimensions (all models):                           | 12.5" H x 3"W 1.25" D<br>32 cm x 7.6 cm x 3.2 cm  |
| VSWR Max:             | 2:1                  | Weight:  | 1 lb (0.45 kg)  |
| Impedance:            | 50 Ohm nominal       | Pole Mounting (standard):                          | L-bracket with U-bolts, up to 2 1/2" (6.3 cm) O.D. pipe, horiz. adjustment up to 45° downtilt |
| Max Power:            | 25 Watts             | Optional Wall Mounting:                            | Vertical (up to 30° downtilt) & horizontal (45° from center)                                  |
| Beamwidth:            |                      | Connector:   | Integral N (Female)   |
| PS10-5900-120         | 120° Az, 11° El      | Custom cable assemblies are available upon request |   |
| PS11-5900-90          | 90° Az, 12° El       |  |   |
| PS12-5900-60          | 60° Az, 12° El       |  |   |
| PS14-5900-45          | 45° 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 (193 kph)   |  |   |