



Omni-Directional Antennas 1.8/1.9 GHz

- 6 dBi & 9 dBi antennas provide uniform omni coverage
- Suitable for for 1.8 band surveillance
- Reflector kit allows the radiation pattern to be reshaped into a directional cardioid pattern

The OD Series Antennas for 1.8/1.9 GHz are optimized for use in a wide variety of wireless systems. Typical uses include MicroCell, data links, and surveillance transmitters.

These antennas consist of a colinear array with elements stacked vertically. Unique phasing cancels out-of-phase current distribution, improving system performance. This design maintains an omni pattern in the horizontal plane. The OD Series are free space antennas; no ground plane is required.

An option for the OD series is a reflector kit that beam shapes the omni pattern into a directional cardioid shape. This can result in improved directional gain, and isolation for reduced interference.

The black fiberglass radome (1" diameter/25 mm) makes the antennas durable and rugged. They can withstand the harshest environments of snow, wind, rain and ice.

The feed assembly is made of precision machined aluminum components and is irradiated for weather protection. Custom

cable assemblies are available from Mobile Mark for connecting the antenna to the modem. The antennas is supplied with all the hardware needed to install it to a mast.

| Model # | Frequency | Gain |
|--------------|-----------|-------|
| OD6-1800-BLK | 1750-1850 | 6 dBi |
| OD6-1900-BLK | 1850-1990 | 6 dBi |
| OD9-1800-BLK | 1710-1880 | 9 dBi |
| OD9-1900-BLK | 1850-1990 | 9 dBi |

Color options available for above models
 WHT-White or BLK-Black

| Model | Options |
|------------|---------------------------------------|
| ODR6-1800K | Add-on 90° reflector for 6 dBi models |
| ODR6-1900K | Add-on 90° reflector for 6 dBi models |
| ODR9-1800K | Add-on 90° reflector for 9 dBi models |
| ODR9-1900K | Add-on 90° reflector for 9 dBi models |
| OD-WMK | Wall Mount Bracket |

| Specifications | |
|-----------------------------------|--|
| Frequency & Gain: | See above |
| VSWR: | 2:1 overband |
| Nominal Impedance | 50 ohms |
| Max. Power (Continuous): | 100 watts |
| Vertical Beamwidth (-3 dB point): | |
| 6 dBi Models | 25 degrees |
| 9 dBi Models | 14 degrees |
| Wind Loading (Flat plate equiv.): | 30 -40 sq. inches (194-258) sq. cm) |
| Rated Wind Velocity: | 125+mph (200+ kph) |
| Operating Temp: | -40* to +85* C |
| Lighting Protection: | External suggested |
| Antenna Diameter: | 1" (25mm) main mast and body |
| OD Series Interface: | N Jack (Female) connector |
| Length/Weight: | |
| 6 dBi Models | 22 inches (55.9 cm) 2 lbs (.9 kg) |
| 9 dBi Models | 41 inches (104 cm) 2.5 lbs (1.1 kg) |
| Mounting Kit: | Mast mount kit included |
| Mast Dimensions: | Fits up to 2.5" (6.3 cm) OD |
| Material: | Fiberglass radome with aluminum body |
| Options: | Wall Mount Bracket (OD-WMK) Reflector Kit |
| Shock & Vibration: | EN 300 019-2-4, IEC 60068 |
| Water Ingress: | IPx5 |