

## ECO Series Omni Antennas (Pat.Pend.) for all 2.4 - 6.0 GHz Systems



ECO Series 2.4 - 5 GHz  
Models with N female



"PT" pigtail cable option  
for all models

Mobile Mark's ECO Omni antennas are designed for all new data & broadband systems, including WiFi, 802.11 & WiMAX systems. Using the latest PCB technology, these antennas improve high-speed broadband system performance in an economical package.

The ECO Series are free space antennas; no ground plane is required. Mounting hardware is available for a variety of uses. Standard hardware includes pole/wall mount.

The antenna element is enclosed in an tough white fiberglass radome. The low profile radome is only 0.63 inches (1.6 cm) diameter, and 0.9 in (2.3 cm) at the base. The antenna terminates with an integrated N-female. A "PT" pigtail cable option also provides a direct coax into the antenna and can be outfitted with a variety of connectors, such as Reverse Polarity TNC or SMA. For direct male N mounting, series "RN" can be chosen. These antennas can withstand the harshest outdoor environments, yet are quite attractive for indoor use. The antennas are supplied with hardware for pole or surface mount.

- Gain configurations from 5 dBi to 12 dBi
- Economical, weatherproof and durable design for both indoors and outdoors
- Standard mounting kit includes all hardware needed for pole or wall mount
- Pigtail cable option; use standard mount or hole mount with the 3/4-20 threaded stud

### Model Numbers

| Model      | Description | Frequency     |
|------------|-------------|---------------|
| ECO5-2400  | 5 dBi Omni  | 2.4 - 2.5 GHz |
| ECO8-2400  | 8 dBi Omni  | 2.4 - 2.5 GHz |
| ECO6-2600  | 6 dBi Omni  | 2.5 - 2.7 GHz |
| ECO9-2600  | 9 dBi Omni  | 2.5 - 2.7 GHz |
| ECO6-3500  | 6 dBi Omni  | 3.4 - 3.7 GHz |
| ECO9-3500  | 9 dBi Omni  | 3.4 - 3.7GHz  |
| ECO6-4900  | 6 dBi Omni  | 4.9 - 5.0 GHz |
| ECO9-4900  | 9 dBi Omni  | 4.9 - 5.0 GHz |
| ECO12-4900 | 12 dBi Omni | 4.9 - 5.0 GHz |
| ECO6-5500  | 6 dBi Omni  | 5.0 - 6.0 GHz |
| ECO9-5500  | 9 dBi Omni  | 5.0 - 6.0 GHz |
| ECO12-5800 | 12 dBi Omni | 5.7 - 6.0 GHz |

add "PT" Pigtail Cable Option with N male connector & 3/4-20 thread with Nut  
add "RN" Direct mount version with Male N

### Specifications

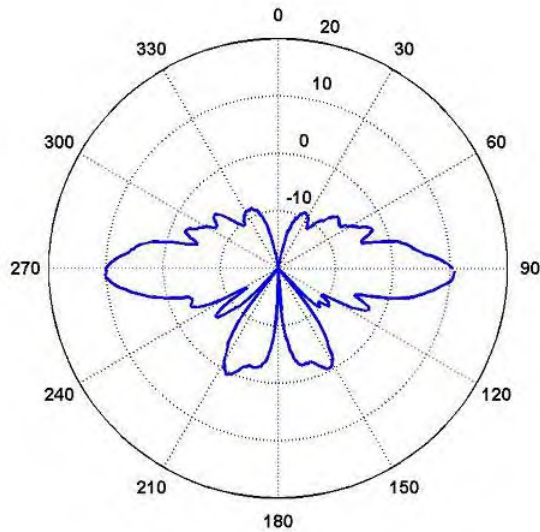
|                              |                                                         |                           |                                                   |
|------------------------------|---------------------------------------------------------|---------------------------|---------------------------------------------------|
| <b>Frequency/Gain:</b>       | See above                                               | <b>Mounting:</b>          | Pole or surface mount, mounts up to 2" (5cm)      |
| <b>Bandwidth@2:1 VSWR:</b>   | See above                                               | <b>Antenna Length:</b>    |                                                   |
| <b>Impedance:</b>            | 50 Ohm nominal                                          | ECO5-2400                 | 11 in (28.0 cm)                                   |
| <b>Max Power:</b>            | 25 Watts                                                | ECO8-2400                 | 22 in (56.0 cm)                                   |
| <b>ECO5 Beamwidth:</b>       | 30° EI, 360° Az                                         | ECO6-2600                 | 15 in (38.1 cm)                                   |
| <b>ECO6 Beamwidth:</b>       | 25° EI, 360° Az                                         | ECO9-2600                 | 22 in (56.0 cm)                                   |
| <b>ECO8 Beamwidth:</b>       | 12° EI, 360° Az                                         | ECO6-3500                 | 15 in (38.1 cm)                                   |
| <b>ECO9 Beamwidth:</b>       | 12° EI, 360° Az                                         | ECO9-3500                 | 19 in (48.3 cm)                                   |
| <b>ECO12 Beamwidth:</b>      | 7° EI, 360° Az                                          | ECO6-4900                 | 11 in (28.0 cm)                                   |
| <b>Operating Temp:</b>       | -40° to +85° C                                          | ECO9-4900                 | 15 in (38.1 cm)                                   |
| <b>Lightning Protection:</b> | External recommended                                    | ECO12-4900                | 19 in (48.3 cm)                                   |
| <b>Max Wind Velocity:</b>    | 125+ mph (200 kph)                                      | ECO6-5500                 | 11 in (28.0 cm)                                   |
| <b>Material:</b>             | White fiberglass radome,                                | ECO9-5500                 | 15 in (38.1 cm)                                   |
| <b>Weight:</b>               | <0.75 lbs (< 0.340 kg)                                  | ECO12-5800                | 19 in (48.3 cm)                                   |
| <b>Antenna Diameter:</b>     | 0.63 in (1.6 cm) Radome,<br>0.9 in (2.3 cm) at the base | <b>PT Pigtail Option:</b> | 1ft cable (0.3 meters) & N male, others available |
| <b>Connector (standard):</b> | N female direct                                         |                           |                                                   |

## ECO12-4900 Series Antennas

Omni Directional Antenna

12 dBi, 4.9 – 5.0 GHz

ECO12-4900 – Elevation Plot



ECO12-4900 – Azimuth Plot

