

## 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, 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		

## ECO6-4900 Series Antennas

Omni Directional Antenna

6 dBi, 4.9 – 5.0 GHz

These plots can be used  
for the following models:

**ECO6-4900  
ECO6-4900PT  
ECOM6-4900  
ECOM6-4900TEF  
ECOT6-4900PT  
ECOT6-4900TEF  
ECOH6-4900PT  
ECOH6-4900TEF**

