



ECO Series 2.4 - 5 GHz  
Models with N female



"PT" pigtail cable option  
for all models

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

- 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

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 a 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.

### 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>Bandwidth@2:1 VSWR:</b>	See above
<b>Impedance:</b>	50 Ohm nominal
<b>Max Power:</b>	25 Watts
<b>ECO5 Beamwidth:</b>	30° El, 360° Az
<b>ECO6 Beamwidth:</b>	25° El, 360° Az
<b>ECO8 Beamwidth:</b>	12° El, 360° Az
<b>ECO9 Beamwidth:</b>	12° El, 360° Az
<b>ECO12 Beamwidth:</b>	7° El, 360° Az
<b>Operating Temp:</b>	-40° to +85° C
<b>Lightning Protection:</b>	External recommended
<b>Max Wind Velocity:</b>	125+ mph (200 kph)
<b>Material:</b>	White fiberglass radome,
<b>Weight:</b>	<0.75 lbs (< 0.340 kg)
<b>Antenna Diameter:</b>	0.63 in (1.6 cm) Radome, 0.9 in (2.3 cm) at the base
<b>Connector (standard):</b>	N female direct

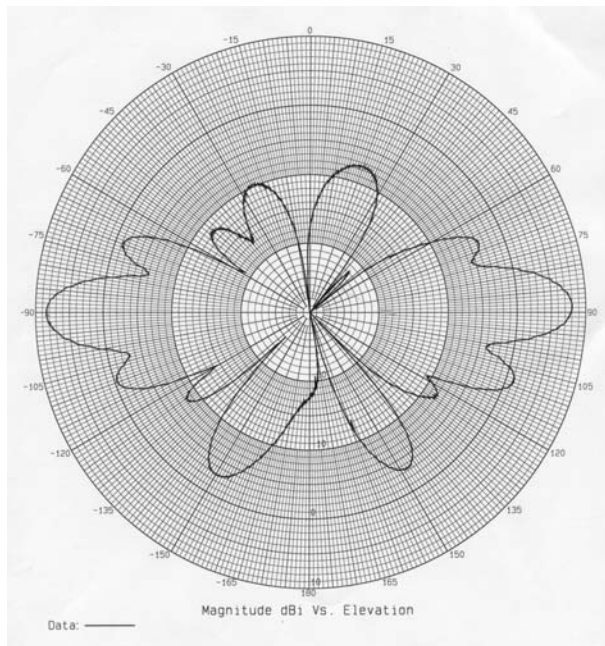
<b>Mounting:</b>	Pole or surface mount, mounts up to 2" (5cm)
<b>Antenna Length:</b>	
ECO5-2400	11 in (28.0 cm)
ECO8-2400	22 in (56.0 cm)
ECO6-2600	15 in (38.1 cm)
ECO9-2600	22 in (56.0 cm)
ECO6-3500	15 in (38.1 cm)
ECO9-3500	19 in (48.3 cm)
ECO6-4900	11 in (28.0 cm)
ECO9-4900	15 in (38.1 cm)
ECO12-4900	19 in (48.3 cm)
ECO6-5500	11 in (28.0 cm)
ECO9-5500	15 in (38.1 cm)
ECO12-5800	19 in (48.3 cm)
<b>PT Pigtail Option:</b>	1ft cable (0.3 meters) & N male, others available

## ECO8-2400 Series Antennas

Omni Directional Antenna

8 dBi, 2400-2500 MHz

### **ECO8-2400 Series – Elevation Plot**



### **ECO8-2400 Series – Azimuth Plot**

