



ECO Series 2.4-5 GHz Models  
 with N Jack (Female)



Recessed N Plug  
 (Male)

Mobile Mark's ECO Omni antennas are designed for all new data & broadband systems, including WiFi 802.11 systems. Using 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. Standard hardware includes pole/wall mount.

The antenna element is enclosed in a tough white or black fiberglass radome. The antenna terminates with an integrated N-female. 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.

## Broadband, Omni-directional WiFi 2.4 & 5 GHz Systems

- Gain configurations from 5 dBi to 12 dBi
- Economical, weatherproof and durable design for both indoors and outdoors
- RN, Direct mount option with N Plug (male) can be mounted directly on device

| Model #         | Gain                   | Frequency     |
|-----------------|------------------------|---------------|
| ECO5-2400-WHT   | 5 dBi Omni             | 2.4 - 2.5 GHz |
| ECO8-2400-WHT   | 8 dBi Omni             | 2.4 - 2.5 GHz |
| ECO6-5500-WHT   | 6 dBi Omni             | 5.0 - 6.0 GHz |
| ECO9-5500-WHT   | 9 dBi Omni             | 5.0 - 6.0 GHz |
| ECO12-5800-WHT  | 12 dBi Omni            | 5.7 - 6.0 GHz |
| ECO5-2400RN-WHT | Recessed N Plug (male) |               |
| ECO8-2400RM-WHT | Recessed N Plug (male) |               |

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

| Specifications        |                                                      |                    |                                                                      |
|-----------------------|------------------------------------------------------|--------------------|----------------------------------------------------------------------|
| Frequency/Gain:       | See table                                            | Mounting:          | Pole or surface mount, mounts up to 2" (5.1 cm) Includes S.S. saddle |
| Gain                  | See table                                            | Antenna Length:    |                                                                      |
| VSWR:                 | 2:1 max over range                                   | ECO5-2400          | 14 in (35.6 cm)                                                      |
| Impedance:            | 50 Ohm nominal                                       | ECO8-2400          | 23 in (58.4 cm)                                                      |
| Max Power:            | 25 Watts                                             | ECO6-5500          | 10 in (25.4 cm)                                                      |
| Beamwidth:            |                                                      | ECO9-5500          | 14 in (35.6 cm)                                                      |
| ECO5                  | 30° El, 360° Az                                      | ECO12-5800         | 18 in (45.7 cm)                                                      |
| ECO6                  | 25° El, 360° Az                                      | RN versions        | 5/8" (1.6 cm) longer than standard lengths                           |
| ECO8                  | 12° El, 360° Az                                      | Connector:         | N Jack (Female) standard 1ft                                         |
| ECO9                  | 12° El, 360° Az                                      | PT Pigtail Option: | RF-195 cable (30 cm) with N Male                                     |
| ECO12                 | 7° El, 360° Az                                       | RN Option:         | Recessed N Plug (Male) EN                                            |
| Operating Temp:       | -40° to +85° C                                       | Shock & Vibration: | 61373, EN 300 019-2-4, MIL                                           |
| Lightning Protection: | External recommended                                 |                    | 810G, IEC 60068,                                                     |
| Max Wind Velocity:    | 125+ mph (193 kph)                                   | IP Rating          | IEEE 1478 IPx5                                                       |
| Material:             | White or black fiberglass                            |                    |                                                                      |
| Weight:               | <0.75 lbs (< 0.340 kg)                               |                    |                                                                      |
| Antenna Diameter:     | 0.63 in (1.6 cm) Radome, 0.9 in (2.3 cm) at the base |                    |                                                                      |