



## Broadband, Omni-directional DSRC 5.9 GHz

- Gain configurations from 6 dBi to 12 dBi
- Economical, weatherproof and durable design for both indoors and outdoors
- Designed for DSRC systems at 5.9 GHz

Mobile Mark's ECO Omni antennas are designed for all new data & broadband systems, including DSRC (Dedicated Short Range Communications) systems at 5.9 GHz.

Using the latest PCB technology, these antennas improve high-speed broadband system performance in an economical package.

These antennas can be used for a variety of wireless applications that fall under the ITS (Intelligent Transportation Systems) umbrella including Smart Highways, Collision Avoidance and Tolling.

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.

Model #	Gain	Frequency
ECO6-5900-WHT	6 dBi Omni	5.9 - 6.0 GHz
ECO9-5900-WHT	9 dBi Omni	5.9 - 6.0 GHz
ECO12-5900-WHT	12 dBi Omni	5.9 - 6.0 GHz
add "RN"		Direct mount version with N Male
ECO6-5900RN-WHT		Recessed N Plug (Male)
*Note: "RN" does not include mounting hardware.		
<u>Color options available for above models</u>		
WHT-White or BLK-Black		

Specifications			
Frequency/Gain:	5.9-6.0 GHz	Mounting:	Pole or surface mount, mounts up to 2" (5 cm) Includes S.S. saddle
Gain:	6-12 dBi (see table)	Antenna Length:	
VSWR:	2:1 max over range	ECO6-5900	10 in (25.4 cm)
Impedance:	50 Ohm nominal	ECO9-5900	14 in (35.6 cm)
Max Power:	25 Watts	ECO12-5900	18 in (45.7 cm)
Beamwidth:		RN Versions	5/8" (16 cm) longer than standard lengths
ECO6	25° El, 360° Az	Connector:	N Jack (Female) standard
ECO9	12° El, 360° Az	RN Option:	Recessed N Plug (Male)
ECO12	7° El, 360° Az	Shock & Vibration:	EN 61373, EN 300 019-2-4, MIL 810G, IEC 60068, IEEE 1478
Operating Temp:	-40° to +85° C	Water Ingress	IPx5
Lightning Protection:	External recommended		
Max Wind Velocity:	125+ mph (193 kph)		
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		