



**ECOM**  
Magnet Mount



**ECOS**  
Spring Mount

## DSRC, Spring Mount Mobile Antennas 5.9 GHz

- Magnetic Mount and Spring Mount
- Ground plane independent designs can be used on any surface
- Elevated Feed spring mount versions provide additional clearance for light bars

Mobile Mark's ECO Mobile series are high frequency antennas designed for new technology applications in the 5850-5925 MHz bands for DSRC.

These antennas are free space designs and ground plane independent. High gain coupled with low loss cable compensates for the losses that occur at higher bands.

All antennas use Low Loss-195 cable to improve efficiency. The vertical radomes are black fiberglass with an ASA base assembly. All antennas are weatherproof.

The magnetic mount models have a 2.6" (66 mm) base, and use a strong commercial magnet. They provide a scratch resistant covering on the bottom. The cable exits out of the side of the base.

The ECOS have the radiating element located higher in a longer radome, providing higher clearance for lightbars on police vehicles.

These antennas can be used for ITS/Smart Highway trials. Spring mounted antennas have been popular for truck installations and have been used for truck platooning trials.

The spring on the ECOS model is strong and flexible enough to handle impact with obstacles such as tree branches overhead in a vehicle mounted application.

Cable assemblies from Mobile Mark for the ECOS are sold separately, however they can be added to the order at the time of purchase.

Model #	Gain	Height
<b>Magnetic Mount Models</b>		
ECOM6-5900-BLK	6 dBi	10"/25cm
ECOM9-5900-BLK	9 dBi	13.75"/34.9cm
<b>Spring Mount Models</b>		
ECOS6-5900DN-BLK	6 dBi	12.5"/32cm
ECOS9-5900DN-BLK	9 dBi	16.25"/41.3cm
Models above are available in Black Only		

Specifications			
Frequency:	5850-5925 MHz	Base/Mount:	ASA plastic & steel
Gain:		MAG Base Size:	2.6" D (66 mm)
ECOM6 & ECOS6	6 dBi	Cable Length/type:	
ECOM9 & ECOS9	9 dBi	Mag Mounts	10 ft of LL-195 (3 meters)
VSWR:	2:1 over band	Connector:	
Impedance:	50 Ohm nominal	ECOM	SMA Plug (Male), standard
Maximum Power:	10 Watts	ECOS	Direct N
Operating Temp:	-40° to +80° C	Mount:	
Radome:	Black Fiberglass	ECOM	Magnet mount
Wind Survivability:		ECOS	To surfaces up to 1/4" thick
ECOM	100 mph (161 kph) with 1/2" radial ice	Water Ingress:	IPx5
ECOS	125 mph (201 kph) with 1/2" radial ice		