

ECO Series Mobile Antennas (Pat.Pnd.)

Models For 2.4 - 6 GHz



Magnetic Mount



Trunk Lid Mount

- Models available in Magnetic Mount and Trunk Lid mount
- Groundplane independent designs can be used on any surface.
- Available in models with 5 dBi - 9 dBi gain
- Elevated Feed Magnetic versions provide additional clearance for light bars

Mobile Mark's new ECO Mobile series are high frequency antennas designed for new technology applications in the 2.4 - 6 GHz bands. There are individual models for the most popular systems: WiFi, WiMAX, 3.5 GHz, Public Safety 4.9 GHz, 5 GHz Broadband and DSRC 5.9 GHz.

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 RF-195 cable to improve efficiency. The vertical radomes are black fiberglass with an ABS 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. Special "EF" elevated feed versions are available. These models have the radiating element located higher in a longer radome, providing higher clearance for lightbars on police vehicles.

Trunk lid units mount securely to vehicle trunk lip with set screws. An allen wrench is provided for attaching the mount. A cable guide routes the cable around the mounting bracket and through the trunk molding into the vehicle, where the radio is typically located.

Magnetic Mount Models

Frequency	Gain	Height	Model
2.4 - 2.5 GHz	5 dBi	12.0 in/31 cm	ECOM5-2400
3.4 - 3.7 GHz	6 dBi	14.0 in/36 cm	ECOM6-3500
4.8 - 5.0 GHz	6 dBi	10.0 in/26 cm	ECOM6-4900
4.8 - 5.0 GHz	9 dBi	14.0 in/36 cm	ECOM9-4900
5.0 - 6.0 GHz	6 dBi	10.0 in/26 cm	ECOM6-5500
5.0 - 6.0 GHz	9 dBi	14.0 in/36 cm	ECOM9-5500

Magnetic Mount Elevated Feed Models

Frequency	Gain	Height	Model
4.8 - 5.0 GHz	6 dBi	14.5 in/37 cm	ECOM6-4900TEF
5.0 - 6.0 GHz	6 dBi	14.5 in/37 cm	ECOM6-5500TEF

Trunk Lip Mount Models

Frequency	Gain	Height	Model
2.4 - 2.5 GHz	5 dBi	12.0 in/31 cm	ECOT5-2400PT
3.4 - 3.7 GHz	6 dBi	15.0 in/38 cm	ECOT6-3500PT
4.8 - 5.0 GHz	6 dBi	11.5 in/29 cm	ECOT6-4900PT
4.8 - 5.0 GHz	9 dBi	15.0 in/38 cm	ECOT9-4900PT
5.0 - 6.0 GHz	6 dBi	11.5 in/29 cm	ECOT6-5500PT
5.0 - 6.0 GHz	9 dBi	15.0 in/38 cm	ECOT9-5500PT

The desired connector should be requested at time of order. Standard cable length is 10 ft (3 meters) for mag mounts and 15 ft (4.6 meters) for trunk lip mounts.

Specifications

Frequency:	See above
Gain:	See above
Bandwidth:	See above @2:1 SWR
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Operating Temp:	-40° to +85° C
Radome:	Black Fiberglass
Base/Mount:	ABS plastic & steel
MAG Base Size:	2.6" D (66 mm)

Trunk Mount Size:	1"H x 3"L x 2.75"W (25 mm x 76 mm x 70 mm)
Trunk Mount Method:	Dual set screws, allen wrench supplied
Cable Length/type:	Mag Mounts 10 ft of RF-195 (3 meters) Trunk lid Mounts 15ft of RF-195 (4.6 meters)
Connector:	Male TNC, N or SMA. Specify at time of order.

ECO9-4900 Series Antennas

Omni Directional Antenna

9 dBi, 4.9 – 5.0 GHz

These plots can be used
for the following models:

**ECO9-4900
ECO9-4900PT
ECOM9-4900
ECOT9-4900PT
ECO9-4900PT**

