



MAG3 Dual Band



MAG0 Dual Band

High Gain Magnet Mount GPS Antennas (Pat.Pnd.)

Dual Band 800/900 MHz with GPS

- Unity gain and high gain 5 dBi models operate on all popular 800/900 MHz bands
- High performance dual band operation with 26 dB active GPS gain
- Small profile base with ultra-strong magnet holds secure for mobile or fixed use
- Sealed polycarbonate case provides durability and weather resistance

These models extend Mobile Mark's existing GPS products by offering increased 900 MHz performance in a magnet mount configuration. Operating on GPS as well as cellular, this product can be mounted to a vehicle's metal surface without the need to drill a hole.

The antenna provides completely independent dual band operation. These designs are either a colinear 11 1/4" whip (29 cm) ; or a low profile monopole whip. Models exist for all 800/900 MHz bands.

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuitry has a low noise figure (2.0 dB max) with excellent filter characteristics. No interaction occurs between the bands. Power for the GPS amplifier and signal is applied through the same cabling directly to the GPS circuit (+3.3 VDC or +5 VDC).

The antennas are outfitted with 10 feet (3 meters) of dual RG-174 cables. Standard connectors are SMA for GPS,

and TNC or SMA for cellular. Other connectors and configurations are available upon request.

The antennas are enclosed in a weatherproof polycarbonate radome. No further hardware is needed for installation of these antennas.

Model Numbers

Model	Description
MAG0-900/1575	Unity Gain 850 Cellular & GPS
MAG0-837/1575	Unity Gain Low SMR/Nextel & GPS
MAG0-925/1575	Unity Gain ISM/GSM(EU) & GPS
MAG3-900/1575	5 dBi 850 Cellular & GPS
MAG3-837/1575	5 dBi Low SMR/Nextel & GPS
MAG3-925/1575	5 dBi High ISM/GSM(EU) & GPS

Please confirm desired connectors at time of order. Note: All models are dual voltage 3.3/5 VDC. Please consult factory for other configurations or options.

Specifications

Frequency:	850 Cellular 824-894 MHz	Current:	20 mA max, 10 mA typical
	Low SMR/nextel 806-870 MHz	Cable:	Dual RG-174, 10 feet (3 meters)
	ISM/GSM(EU) 870-960 MHz	Case Material:	Polycarbonate
	GPS 1575.42 +/- 2 MHz	Dimensions:	
Cellular/SMR Gain:	See above	MAG3 Mag Mount	11 1/4" overall height (29 cm)
GPS Gain:	26 dB Amplifier, 5 dBi Antenna	MAG0 Mag Mount	3 1/2" overall height (9 cm)
VSWR:	2:1 max over range		Base alone is 1" H x 2 5/8" D (2.5 cm x 6.7 cm)
Noise Figure:	2.0 dB max, 1.7 dB typical	Mounting:	Magnet with protective base
Operating Temp:	-40° to +85° C	Whip:	304 Stainless Steel
Nominal Impedance:	50 Ohms	Cable Attachment:	Integral to device, side exit
Maximum Power:	10 Watts for 800/900 MHz	Connector:	TNC or SMA for 800/900 MHz, SMA on GPS. Consult factory for other configurations.
GPS Amplifier Bias:	Dual 3.3/5 VDC +/-10%		

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