

Portable GPS Antennas Magnetic Mount with Amplifier



Magnetic Mount GPS Antenna

- Magnet version mounts easily to roof or trunk of vehicle.
- High gain 26 dB active amplifier with low noise characteristics
- Sealed polycarbonate case provides weather proofing
- Low profile cabling with choice of connector style

Mobile Mark's new Magnet Mount GPS Antenna complements our other styles with a versatile mounting option. The magnet mount style provides use for car-to-car, and hand-carried applications.

The antenna design is very small, it is less than 2 inches (5 cm) overall, but powerful. The magnet can be attached to roof, hood or trunk of any metal vehicle or flat surface. The cable would then be routed to the GPS receiver, typically through a vehicle window. The antenna provides durability and weatherproofing, using a sealed polycarbonate case. When not in use, the antenna can easily be

removed. Although the antenna could be mounted on any surface, the antenna should be placed on metal with 5" or more (127 mm) area across. This will provide the maximum GPS operation.

GPS performance is provided by a 26 dB low noise amplifier, with 5 dBi of antenna gain. Power required for the GPS amplifier is either 3.3 or 5 VDC. This power is supplied through the cable along with the GPS signal. Most GPS receivers will provide the needed power for the amplifier circuit without modifications.

Standard cable supplied with the Magnet Mount antenna is 10 feet (3 meters) of RG-174. Standard connector supplied is SMA male. Other connectors, and cable lengths can be supplied if requested, please consult factory for availability.

Other Mobile Mark GPS antennas include Surface Mount and Window Mount. MultiBand antennas (with GPS) are also available in most mounting styles.

Model Numbers

Model	Description
MAG-1575	Magnetic Mount GPS Antenna

SMA male connectors are supplied unless requested otherwise. Please specify white or black radome, when ordering. Other configurations may be available, please consult factory.

Specifications

Frequency:	1575.42 +/- 4 MHz	Current:	20 mA max, 10 mA typical
GPS Gain:	26 dB Amplifier, 5 dBi Antenna	Cable Type:	RG-174, 10 feet (3 meters)
VSWR:	2:1 max over range	Case/Mount:	1.75"W x 2.0"L x 0.56" H (4.5 cm x 5 cm x 1.5 cm)
Noise Figure:	2.0 dB max	Case Material:	Black or White, Polycarbonate
Operating Temp:	-40° to +85° C	Connector:	SMA male standard, others available on request
Nominal Impedance:	50 ohms		
Amplifier Bias:	Dual 3.3/5 VDC, +/- 10%		