

## Magnet Mount WiMAX



- Unity & 5 dBi gain for WiMAX 2.5 GHz
- Built-in ground plane improves high frequency performance
- Higher gain overcomes signal losses
- Low profile, powerful magnet securely holds antenna

Mobile Mark's high frequency Magnet Mount antennas are useful for applications such as surveillance work, 2.4 WiFi/ISM, and WiMAX at 2.6 GHz.

The IMAG Mag-mount antennas have a ground plane imposed at the feedpoint. This design overcomes the typical ground decoupling that occurs at the higher frequencies.

Although the antennas have their own built-in ground plane, it must be mounted to a metal surface. This increases the number of ways the antenna can be used. For example, the magnet can be used to secure the antenna to a moving vehicle, but the antenna can also be removed from the car for off-car application such as network testing.

The low profile 5 dBi whip with tight winding phasing coil reduces potential whistling noise. For appropriate applications, a unity gain (0 dBi) version is also available.

The MGRM Series provides the same electrical performance as the surface mount RM Series. The MGRM-WHF models are very broadbanded and cover the entire 1.7-6.0 GHz frequency band with a single antenna element and single cable. As such, it provides coverage on WiFi, WiMAX, AWS and UMTS.

The antenna is typically supplied with an SMA male connector, others are available.

The MGRM have passed industry and military specs for Shock & Vibration, and have a water ingress rating of IPx5.

A steel surface (but not stainless steel) will provide best contact with the powerful magnet.

Standard cable supplied is low loss RF-195, which has excellent characteristics from 1.7 GHz through the 6 GHz band.

The IMAG antennas are only available in black.

Model #	Gain	Frequency
IMAG0-2600-3C-BLK-120	Unity	2500-2700 MHz
IMAG5-2600-3C-BLK-120	5 dBi	2500-2700 MHz
MGRM-WHF-3C-BLK-120	5 dBi	1.7-6 GHz
<u>Color options available for MGRM series</u>		
BLK-Black		
WHT-White		
IMAG only available in BLK		

### Specifications

Frequency:	See above
Gain:	See above
VSWR:	2:1 over band
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Operating Temp:	-40° to +85° C
Antenna Height:	
IMAG5 series	7 inches (178 mm)
IMAG0 series	2 inches (51 mm)
MGRM Size:	1.9" Diameter x 3.375" High (48 mm x 86mm)
IMAG Mount:	Black ABS plastic & metal
MGRM Mount:	White or black ASA plastic

IMAG Whip:	302 stainless steel
Cable:	10 feet (3 meters) of RF-195
Connector:	SMA Plug (Male) typical, other connectors available, specify at time of order
Shock & Vibration:	
MGRM series	EN 61373, IEEE 1478, MIL-810G TIA-329.2-C
Water Ingress:	MGRM: IPx5