



Dual & Broadband  
RM/RMM Series



Mag Mount Versions  
MGRM Series



Pole & Wall mount  
adapter for RM Series

## Body & Mag Mount Antennas

### GSM/CDMA & Broadband

- Stud Mount, Magnet Mount & Pole Mount
- Broadband RMM model for worldwide coverage including UMTS & 802.11b/g
- Rugged Stud mount uses 5/8" hole (16 mm)
- Flexible seal provides watertight use

These new antennas complement Mobile Mark's broad line of antenna products for Cellular & PCS/GPRS applications. These antennas can be mounted to any vehicle, container or bulkhead.

The RM/RMM Stud mount designs use a 5/8" (16 mm) stud for securing to the surface. Access to the underside of the body surface is required to complete the installation.

The RM3 Dual Band is a medium profile (3" H, 76 mm) Antenna with performance of 3 & 5 dBi max (frequency dependent). A ground plane is required to maximize gain. The antenna radome consists of black or ABS UV resistant plastic, with a chrome plated mounting base and threaded feed thru. The bottom of the RM series is outfitted with an "O" ring for complete sealing. A mounting nut is provided. Magnetic mount versions, MGRM-900/1900 allow use without drilling a hole.

The RMM-UMB is a broadband version capable of simultaneous operation on worldwide bands from 750 MHz up to 2.7 GHz, with excellent response. It is housed in the same rugged radome style as the RM3 dual band.

Stud mount antennas are outfitted with 1 foot (30 cm) of RG-58 cable & SMA male connector as standard. Jumper cables for completing the installation can be supplied separately, low loss RF-195 cable is also available. Alternatively, a longer integral cable can be supplied upon request. The Mag Mount versions are normally supplied with 10ft (3 m) of RG-58 cable, with optional low loss RF-195 cable.

#### Model Number

Model	Description
RM3-900/1900	Dual Band US GSM & CDMA
RM3-925/1800	Dual Band EU GSM & DCS-1800
RMM-UMB	Broadband US Cellular & EU GSM
MGRM-900/1900	Mag Mount RM3 for US GSM/CDMA
MGRM-925/1800	Mag Mount RM3 for EU GSM/DCS
MGRM-UMB	Mag Mount RMM for Broadband use
RM-MK	Pole/wall mount for RM3/RMM

Stud mount antennas are supplied with standard 1 foot (304 mm) cable & SMA. Longer cable lengths & other connectors available, request at time of order.

#### Specifications

##### Frequency:

US GSM/CDMA	824-894 & 1850-1990 MHz
EU GSM/DCS & ISM	870-960 & 1710-1880 MHz
Broadband	750-2700 MHz

##### Peak Gain:

GSM/CDMA Models	3 dBi @ 900 MHz
	5 dBi @ 1900 MHz
Broadband Models	3 dBi @ 750-1250 MHz
	5 dBi @ 1650-2700 MHz

##### VSWR:

2:1 max over range

##### Operating Temp:

-40° to +85° C

##### Nominal Impedance:

50 ohms

##### Maximum Power:

10 watts

##### RM3/RMM Size:

1.685" diameter x 3" high  
(43 mm x 76 mm)

##### Case Material:

ABS plastic, UV Resistant

##### RM Mounting Stud:

5/8" (16 mm) diameter feed thru  
3/4" long thread for 1/2" metal  
(19 mm long for 12.7 mm metal)

##### RM Hardware:

Mounting nut included

##### RM Cable:

RG-58, 1 foot (304 mm)

##### Pigtail Connector:

TNC male; use jumpers for  
longer installation or request  
longer lengths at time of order

##### Pole/wall Option:

RM-MK mount for RM3/RMM

##### MGRM Mag Size:

1.685" diameter x 3.62" high  
(43 mm x 92 mm)

Mag Base, 2.63"D (67 mm)

##### MGRM Mag Cable:

10 ft (3 m) RG-58 & SMA

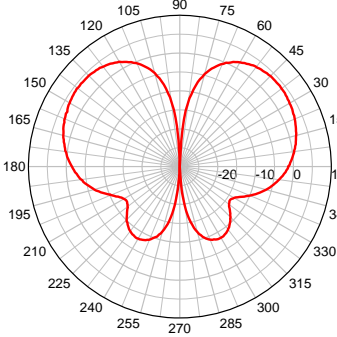
# RMM-UMB-XX Series Antennas

Body Mount “BUS” Universal Multi-Band Antenna 750 MHz thru 2700 MHz

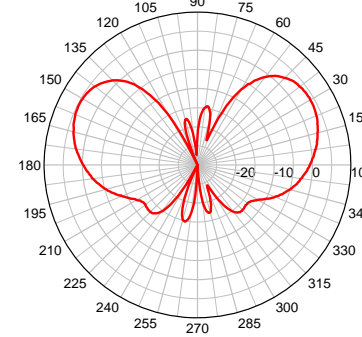
3 dBi Gain, Freq (750-1250 MHz), 5 dBi Gain Freq (1650-2000 MHz)

3 dBi Gain, Freq (2100-2700 MHz), Unity Gain, Freq (1710-2700 MHz) without Ground Plane

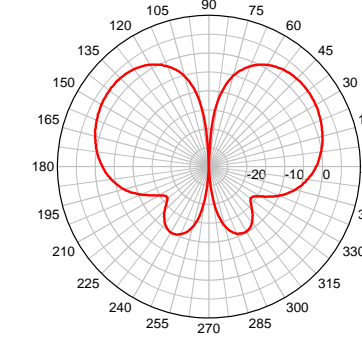
RMM 900 MHz – Elevation Plot



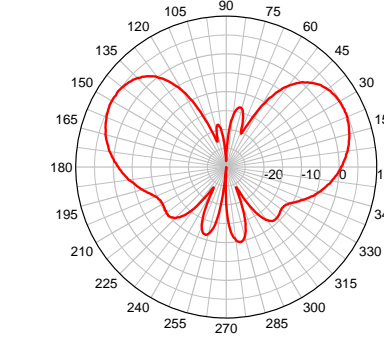
RMM 1900 MHz – Elevation Plot



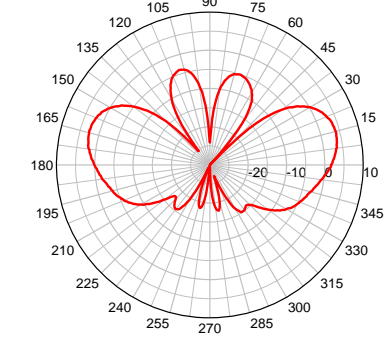
RMM 925 MHz – Elevation Plot



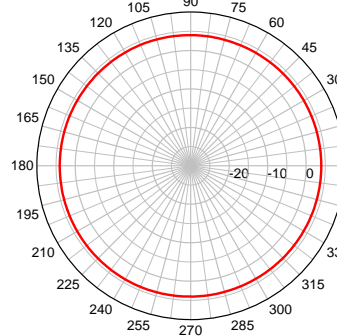
RMM 1800 MHz – Elevation Plot



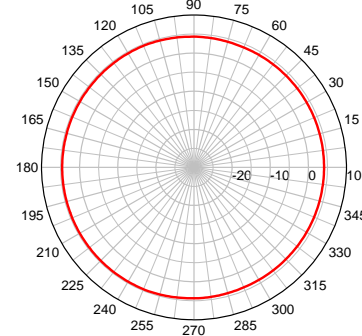
RMM 2400 MHz – Elevation Plot



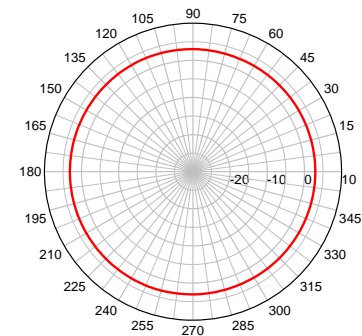
RMM 900 MHz – Azimuth Plot



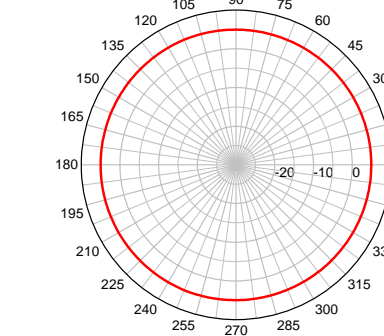
RMM 1900 MHz – Azimuth Plot



RMM 925 MHz – Azimuth Plot



RMM 1800 MHz – Azimuth Plot



RMM 2400 MHz – Azimuth Plot

