



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)

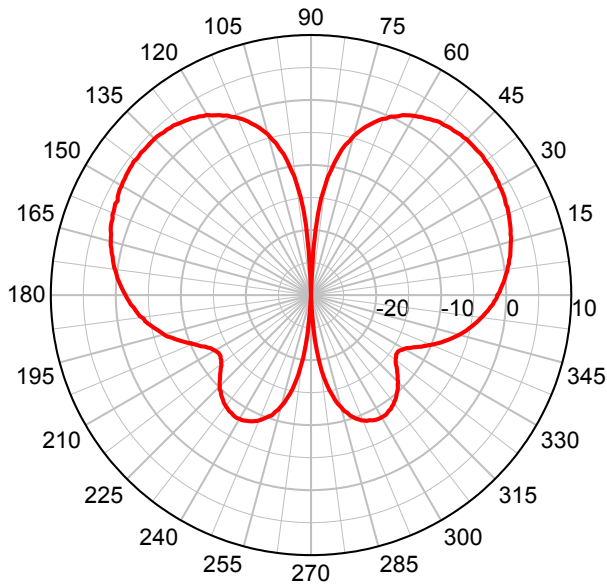
MGRM Mag Cable:

Mag Base, 2.63"D (67 mm)
10 ft (3 m) RG-58 & SMA

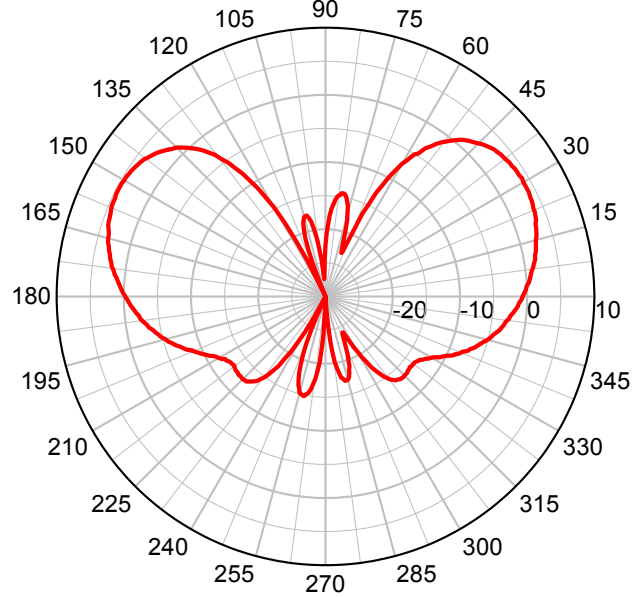
RM3-900/1900 Antenna

Body Mount Dual Band“BUS” Antenna
3 dBi, 824-894 MHz & 1850-1990 MHz

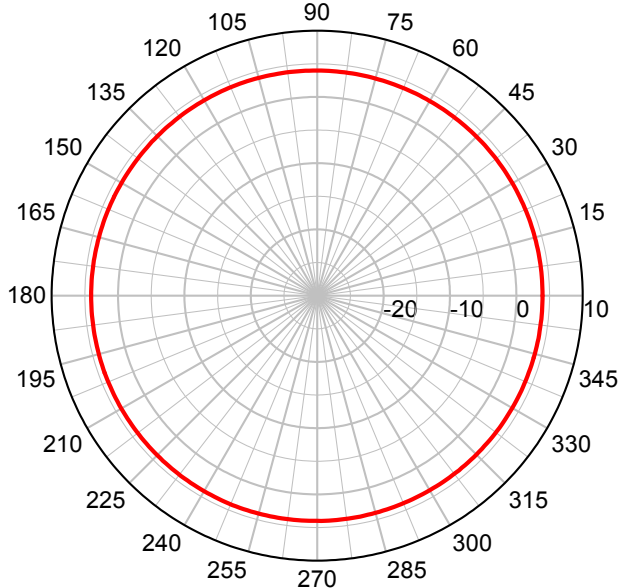
RM3-900 – Elevation Plot



RM3-1900 – Elevation Plot



RM3-900 – Azimuth Plot



RM3-1900 – Azimuth Plot

