



# M1590HCT-LP-MM

INMARSAT MAGNET MOUNT LOW-PROFILE  
ANTENNA

Part #: 100-00183-02

## Description

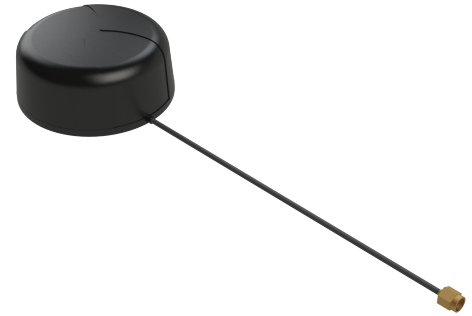
The M1590 HCT-LP-MM is a high-performance low-profile antenna designed for the Inmarsat network, and built on proprietary Maxtena Helicore® Technology. The Helicore® technology provides exceptional pattern control, polarization purity and high efficiency in a very rugged and compact form factor. The omnidirectional antenna pattern allows this antenna to be easily installed in any location. The antenna features a custom cable and SMA connector and is design to be magnet mounted onto any surface. The antenna is IP67 rated and optimized for harsh environments on both land and maritime applications.

## Electrical Specifications

| Parameter         | Specification              |
|-------------------|----------------------------|
| Frequency Range   | 1525-1560MHz, 1625-1660MHz |
| Polarization      | RHCP                       |
| Antenna Peak Gain | 2 dBic                     |
| Peak Efficiency   | 60%                        |
| Beamwidth         | 157°                       |
| VSWR              | 2.0:1                      |
| Impedance         | 50 Ω                       |

## Mechanical Specification

| Parameter             | Specification           |
|-----------------------|-------------------------|
| Antenna Dimensions    | Φ 84 x 37.4mm           |
| Weight                | 134 g                   |
| Operating Temperature | -40°C to 85°C           |
| RF Connector          | SMA                     |
| Environmental         | IP66 and RoHS Compliant |



## Features

- Optimized for the Inmarsat Network
- IP66 and ROHS compliant
- Ground plane independent
- High gain & low axial ratio
- Magnet Mount
- Low profile

## Applications

- Inmarsat IOT Applications
- Vehicle and fleet tracking
- Military & security
- Asset tracking
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Law enforcement



Maxtena Inc.  
7361 Calhoun Place, Suite 102  
Rockville, MD 20855  
1-877-629-8362  
info@maxtena.com

[www.maxtena.com](http://www.maxtena.com)

