

M1600HCT-EXT IRIDIUM/GPS PASSIVE EXTERNAL MAGNET MOUNT ANTENNA

Description

The M1600HCT-EXT is a high performance Iridium certified antenna designed for the Iridium network and GPS, built on proprietary Maxtena Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1600HCT-EXT is an external magnet mount antenna, featuring a 1,500 mm LRM100 coaxial cable with integrated connector.

The very small size and light weight make this helical Iridium/GPS antenna unique in the market and perfect for various commercial and industrial applications. This antenna is the ideal solution for the most extreme and demanding applications where reliable satellite reception and high accuracy are required. It can be used to boost the performance of the Iridium handsets among other uses.

Electrical Specifications

Parameter	Design Specifications
Frequency	1616-1626 MHz (Iridium) 1575 MHz (GPS)
Polarization	RHCP
Antenna element peak gain	2.8 dBic (Iridium) -3 dBic (GPS)
Axial Ratio	0.5 dB (typical) / 1 dB (max)
VSWR	1.5 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C
RF connector	SMA
Overall dimensions	48 mm (height) x 18.5 mm (diameter)
Weight	11 grams

Mechanical Specifications

Dimensions are in mm

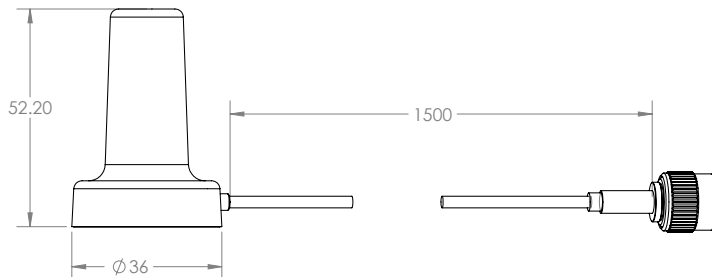


Image does not reflect the actual size of the antenna



Features

- Optimized for the Iridium network
- Very low axial ratio
- Ultra lightweight - 52 grams
- Ground plane independent
- Magnet mount

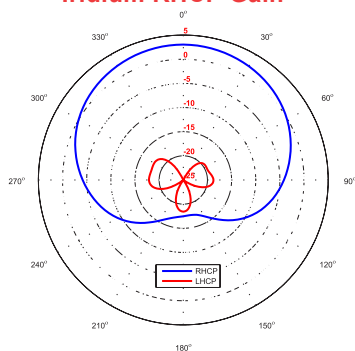
Applications

- Vehicle and fleet tracking
- Military & security
- Asset tracking
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- Law enforcement
- Iridium (SBD) Short Burst Data

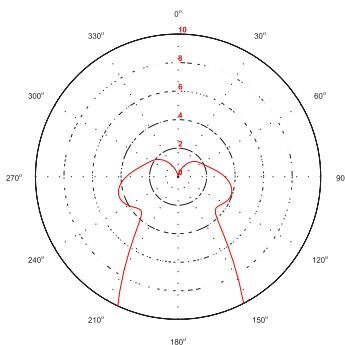
Iridium Network Typical Performance

Parameter	Design Specifications
Antenna element peak gain	2.8 dBic (typical)
Efficiency	60% (typical)
Axial Ratio (@ Zenith)	0.5 dB (max)

Iridium RHCP Gain



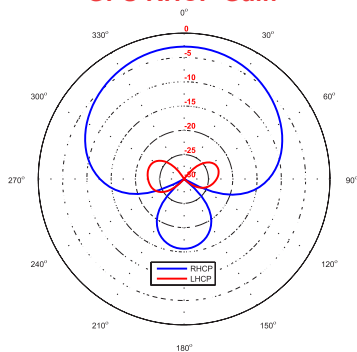
Iridium Axial Ratio



GPS Band Typical Performance

Parameter	Design Specifications
Antenna element peak gain	-3 dBic (typical)
Efficiency	20% (typical)
Axial Ratio (@ Zenith)	0.5 dB (max)

GPS RHCP Gain



GPS Axial Ratio

