M1621HCT-EXT
IRIDIUM EXTERNAL MAGNET MOUNT ANTENNA

Ordering Part #: 100-00044-01 (TNC)
Ordering Part #: 100-00044-02 (SMA)
Ordering Part #: 100-00044-03 (SMB)
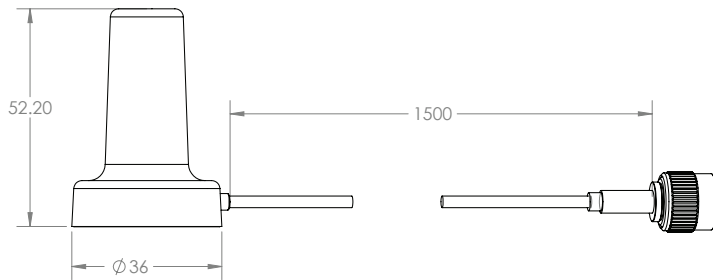Ordering Part #: 100-00044-04 (MCX)

Image does not reflect the actual size of the antenna

iridium CONNECTED®

Description

The M1621HCT-EXT is a high performance Iridium certified antenna designed for the Iridium network, built on proprietary Maxtena HeliCore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1621HCT-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 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.
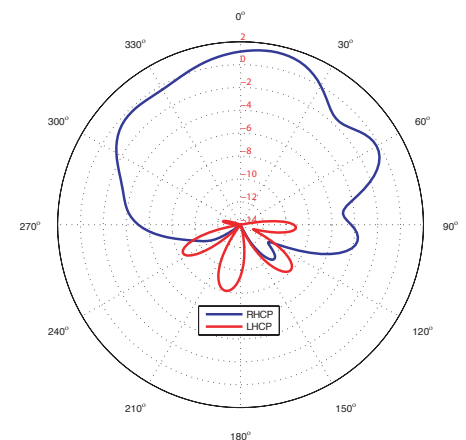
Features

• Optimized for the Iridium network
• Very low axial ratio
• TNC, SMA, SMB, MCX connector
• Ground plane independent
• Magnet mount
• Ultra light weight - 52 grams

Applications

• Vehicle and fleet tracking
• Military & security
• Asset tracking
• PDAs and laptops
• Oil & gas industries
• Navigation devices
• Law enforcement
• LBS & M2M applications
• Iridium (SBD) Short Burst Data

Mechanical Specifications
dimensions are in mm

52.20
1500
Ø 36

Realized gain plot
Measured at 1621 MHz

Electrical Specifications

Parameter	Design Specifications
Frequency	1616-1626 MHz
Polarization	RHCP
Antenna element peak gain	1 dBic (typical)
Efficiency	50%
Bandwidth (-1dB)	30 MHz
Axial Ratio	2 dB (max)
VSWR	1.5 (max)
Impedance	50 Ohm
Operating temp.	from -40˚C to 85˚C
RF connector	TNC, SMA, SMB, or MCX
Overall dimensions	52.20 mm (height) x 36 mm (diameter)
Weight	52 grams

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