

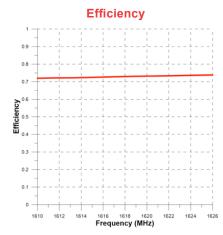


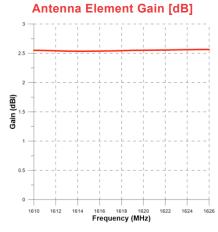
Description

The M1621HCT-LP-MM is a high performance low profile antenna designed for the Iridium SFX/RUDICS/SBD 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. This antenna is designed to work with both Iridium voice and data modems including Iridium 9601, 9602N, 9603N, 9523N, 9522B and 9770 SFX. The antenna features a custom cable and SMA connector and is design to be magnet mounted onto any surface. The antenna is IP66 rated and optimized for harsh environments on both land and maritime applications.



Parameter	Specification
Frequency	1616 - 1626 MHz
Polarization	RHCP
Antenna Element Peak Gain	2.5 dBic (typical)
Peak Efficiency	73%
Beamwidth	147°
VSWR	2.0:1
Impedance	50 Ω







Features

- · Iridium SFX 9770 compliant
- · IP66 and ROHS compliant
- · Ground plane independent
- · High gain & low axial ratio
- Magnet Mount
- · Low profile

Applications

- Vehicle and fleet tracking
- Military & security
- Asset tracking
- IoT
- · High quality voice applications
- Maritime industries
- UAV/Drones
- Navigation devices
- Mining equipment
- · LBS & M2M applications
- · Data streaming



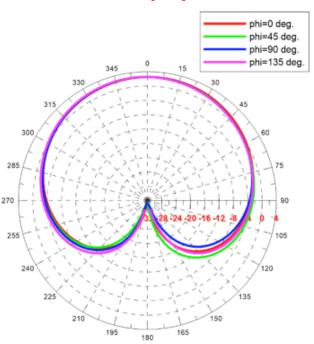
Radiation Specifications

Iridium Radiation Patterns

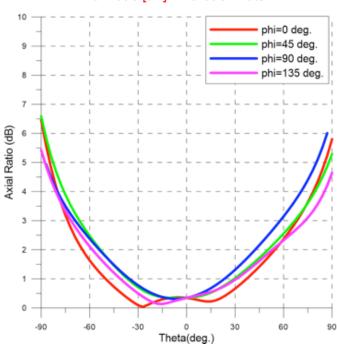
Maxtena's M1621HCT-LP-MM has unique features that make it the best option for high-accuracy Iridium applications.

- 1. Highly symmetric radiation pattern guarantees there will be no direction of weak reception or blind spots.
- 2. A 147 degree beamwidth ensures excellent hemisperical coverage.

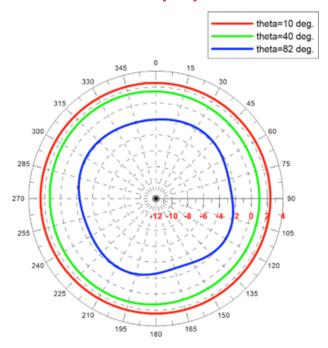
RHCP Realized Gain [dBic] - Elevation Cuts



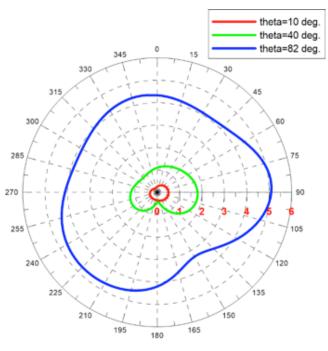
Axial Ratio [dB] - Elevation Cuts



RHCP RealizedGain [dBic] - Azimuth Cuts



Axial Ratio [dB] - Azimuth Cuts





Mechanical Specification		
Overall Dimensions	37.4 mm (height) x 84 mm (diameter)	
Weight	134 g	
Operating Temperature	from -40°C to 85°C	
RF Connector	SMA	
Environmental	IP66 and RoHS Compliant	



