

# **Description**

The M1600HCT-22P-MR is a rugged high performance passive antenna designed for the Iridium/ GPS band, and built on Maxtena proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1600HCT-22P-MR is a screw-on design, featuring an integrated SMA connector. The ultra-light design is rated IP-67 when both mounted and unmounted for added protection. This product is designed for applications requiring high quality reception of the Iridium network.

## **Electrical Specification**

Parameter	Design Specifications					
Frequency	1616-1626 MHz (Iridium) 1575 MHz (GPS)					
Polarization	RHCP -0.5 dBic (typical)					
Antenna element peak gain						
Efficiency	25% (typical)					
Bandwidth (-1dB)	20 MHz					
Axial Ratio	1 dB (typical) / 1.5 dB (max)					
VSWR	1.5 (max)					
Impedance	50 Ohm					
Operating temp.	from -40°C to 85°C					
RF connector	SMA					
Overall dimensions	38 mm (height) x 18.5 mm (diameter)					



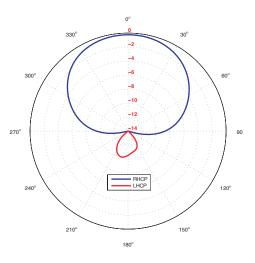
### **Features**

- Iridium/GPS bands
- · Very low axial ratio
- IP-67 mounted and unmounted
- Ultra light weight
- Ground plane independent

### **Applications**

- · Vehicle and fleet tracking
- Military & security
- Asset tracking
- · Seismic recording instruments
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices

#### Realized gain plot Measured at 1575 MHz



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	<ol> <li>FREQUENCY (Iridium/GPS): 1616-1626 MHz, 1575 MHz</li> <li>CONNECTOR TYPE: SMA-MALE.</li> <li>HOUSING MATERIA: ABS/PC.</li> <li>COLAR: BLACK.</li> <li>DUST AND WATER-RESISTANCE: IP67.</li> <li>RECOMMEND A 8.55 MM MOUNTING HEIGHT FOR MOUNTING INTERFACE SEALING A</li> </ol>							ہـــا TY	A PICAL	MOL
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