

# M1600HCT-SMA

## GPS/Iridium Antenna

### Description

The M1600HCT-SMA is a high performance antenna designed for the Iridium band, 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-SMA is a screw-on design, featuring an integrated SMA connector. This product is ideal for applications requiring operation on the Iridium network and GPS reception. The antenna is equipped with an O-ring that makes the antenna waterproof, once installed on a mating surface.

### 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

### Iridium Network Typical Performance

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

### Mechanical Specifications

dimensions are in mm

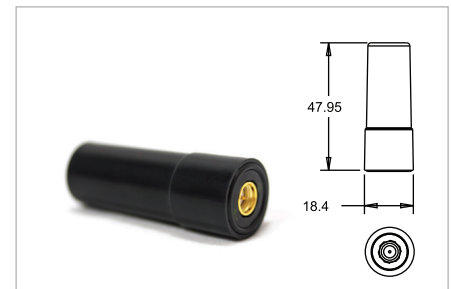


Image does not reflect the actual size of the antenna

### Features

- Optimized for the Iridium network
- Iridium/GPS bands
- Very low axial ratio
- SMA interface
- Ground plane independent

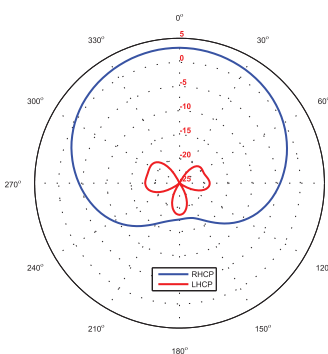
### Applications

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

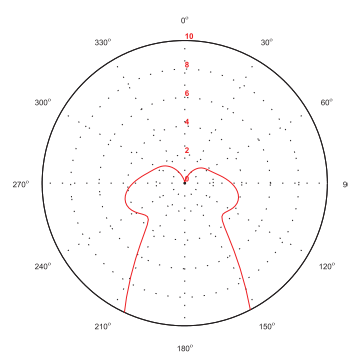
### GPS Band Typical Performance

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

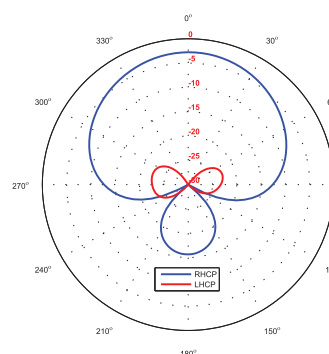
Iridium RHCP Gain



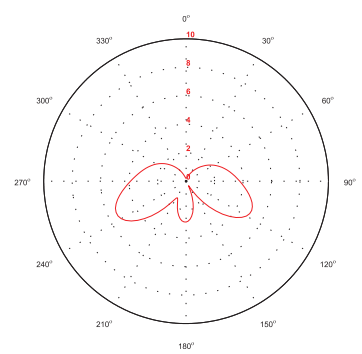
Iridium Axial Ratio



GPS RHCP Gain



GPS Axial Ratio



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