

# M1516HCT-SMA

## GPS/GLONASS Passive Antenna

### Description

The M1516HCT-SMA is a high performance antenna designed for GPS/GLONASS dual 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 M1516HCT-SMA is a screw-on design, featuring an integrated SMA connector. This product is ideal for applications requiring high quality reception of both GPS and GLONASS signals. The antenna is equipped with an O-ring that makes the antenna waterproof once installed on a mating surface.

### Mechanical Specifications

Dimensions are in mm

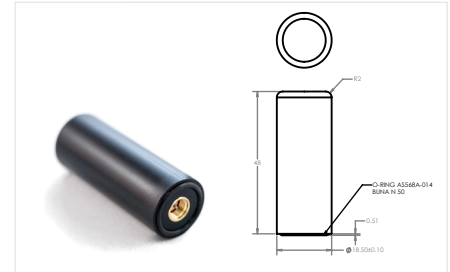


Image does not reflect the actual size of the antenna

### Electrical Specifications

Parameter	Design Specifications
Frequency	1575 MHz (GPS)
	1602 MHz (GLONASS)
Polarization	RHCP
Antenna element peak gain	1.5 dBic (GPS)
	1.5 dBic (GLONASS)
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

### Features

- GPS/GLONASS bands
- Very low axial ratio
- Ground plane independent
- Customizable cable length

### Applications

- 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	1.5 dBic
Efficiency	40%
Axial Ratio (@ Zenith)	0.5 dB (Max)

### GLONASS Band Typical Performance

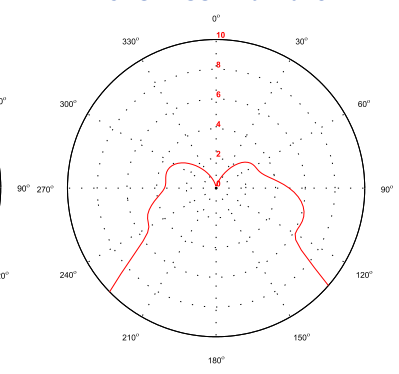
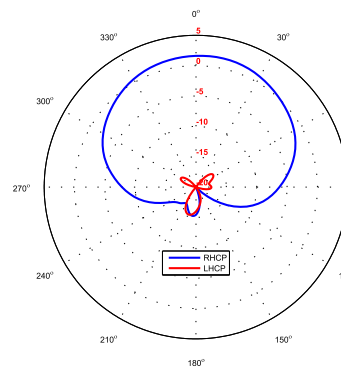
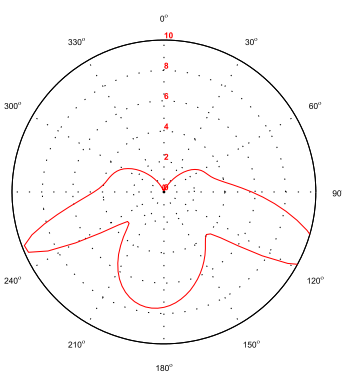
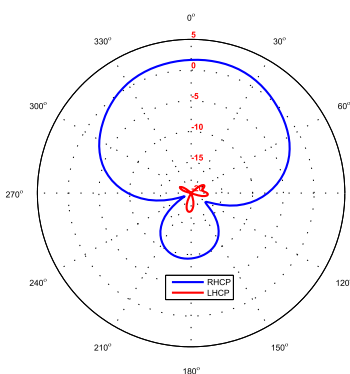
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GPS RHCP Gain

GPS Axial Ratio

GLONASS RHCP Gain

GLONASS Axial Ratio



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