



Maxtena, Inc.  
 Antenna Innovations Company  
 1715 Pratt Dr., Suite 2800  
 Blacksburg, VA 24060  
 1-877-MAXTENA (629-8362)  
 Info@Maxtena.com

## M1516HCT

Quadrifilar Antenna for Precision GPS & GLONASS Band



### PRODUCT DESCRIPTION

The M1516HCT uses Advanced Helicore™ Technology to achieve greater than +1.0 dBic performance in both GPS L1 and GLONASS bands for “dual-frequency” Precision GPS/GLONASS applications. This very small 18mm (base) x 48mm (height) size and lightweight features make this dual band antenna perfect for various applications (commercial and military). With axial ratio typically 0.5 dB, upper-hemisphere efficiency >40%, enables this small Precision GPS/GLONASS antenna to operate in the most extreme and demanding applications giving maximum satellite reception. The interface connector is available in SMA/TNC options.

### SPECIFICATIONS

	Min	Typical	Max	Unit
Frequency GPS L1	1570	1575.42	1580	MHz
Frequency GLONASS	1597	1602	1607	MHz
Polarization		RHCP		
Efficiency (upper hemisphere)		40		%
Efficiency (total spherical)		50		%
Peak Gain GPS L1	0	0.5	1.0	dBic
Peak Gain GLONASS	0.5	1.0	1.5	dBic
Bandwidth GPS L1	100°	110°	120°	degrees
Bandwidth GLONASS	100°	110°	120°	degrees
Axial Ratio	0.5	1.0	3.0	dB
Front to Back Ratio	10			dB
VSWR		<2		dB
Impedance		50		Ohms
Overall Dimensions		18 (diameter) x 48 (height)		mm
Operating Temperature	-40	20	+75	°C