

SATFLEET 3IN1

IRIDIUM/GPS/GLONASS FLEET ANTENNA

Part #: 100-00131-01

Description

Maxtena's SATFleet Iridium/GPS/Glonass fleet solution consists of two separate high performance antennas in one compact and secure housing: one helix Iridium enabling Voice and Data and one high gain active GPS/Glonass antenna.

The solution is designed for reliable Iridium network SBD/RUDICS Voice/Data modem applications and provides superior call/voice quality. The low profile SATFleet is a screw mount antenna with a rugged IP67 rated housing and is ideal for the most demanding environmental challenges. The antenna provides outstanding performance for any telematics and fleet management application.

Passive Iridium Antenna

Electrical Specifications

Parameter	Specification
Frequency	1621 MHz
Polarization	RHCP
Beamwidth	120°
Gain	1.5 dBic (typical) @ broadside
Axial Ratio	1.5 dB (typical)
Impedance	50 Ω

Active GPS/Glonass Antenna

Electrical Specifications

Parameter	Specification
Frequency	1575.42 MHz (GPS) 1602 MHz (Glonass)
Polarization	RHCP
Antenna Element Peak Gain	5.5 dBic
DC voltage	2.5 to 5 V
DC current	7 mA @ 2.5 V / 11 mA @ 3.5 V
Bandwidth (-1dB)	20 MHz
LNA network gain	34 dBi @ 2.5 V / 34 dBi @ 3.5 V
Axial ratio	1.5 dB (typical) / 2.5 dB (max)
VSWR	2 (max)
Impedance	50 Ω



Features

- Superior Iridium Voice/Data performance
- Iridium ground plane independent
- High performance helix Iridium antenna
- Active GPS/Glonass antenna

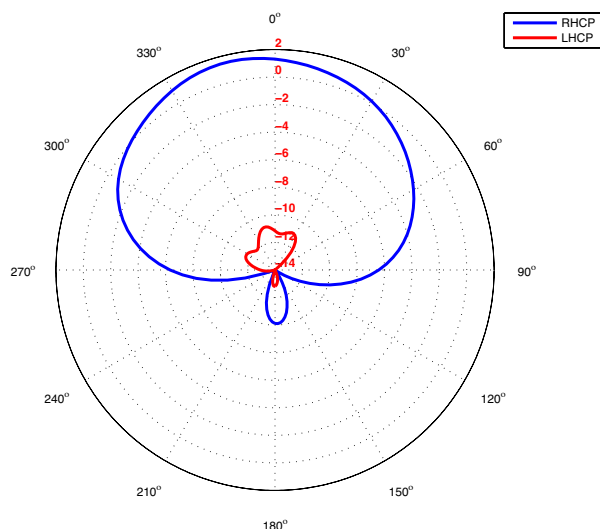
Applications

- Fleet Management
- Circuit Switch Data
- Asset Tracking
- Law Enforcement & Public Safety
- Heavy Machinery
- Oil & Gas

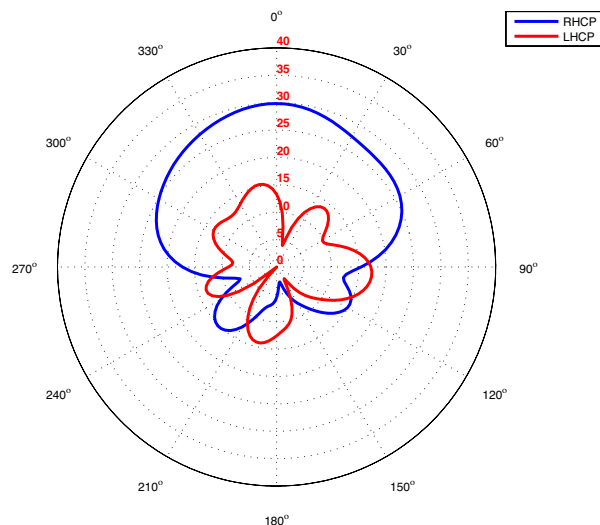
Advantages

- Iridium Certified
- Rugged IP67 housing
- Low profile with screw mount
- Superb low elevation performance
- Low weight

Realized Gain Plot (Iridium 1621 MHz)



Realized Gain Plot (GPS 1575.42 MHz)



Mechanical Specification

Cable type	RG 174 standard - customization on demand
Cable length	508 mm standard - customization on demand
Connector	SMA Plug (M) standard - customization on demand
Operating temp.	from -40°C to 85°C
Protection class	IP67 and UV Stable
Weight	117 grams
Dimensions (w x h x d)	61 x 50 x 116 mm
Mounting hole diameter	10.5 mm $\pm$ 0.2 mm
Max torque	4 Nm

