



# 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 on 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

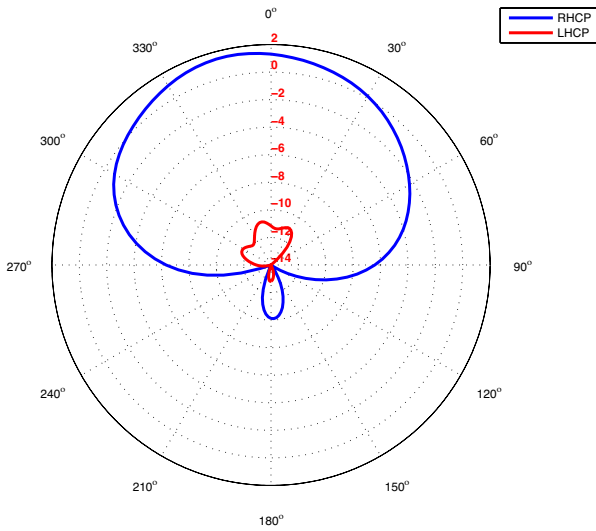
## Applications

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

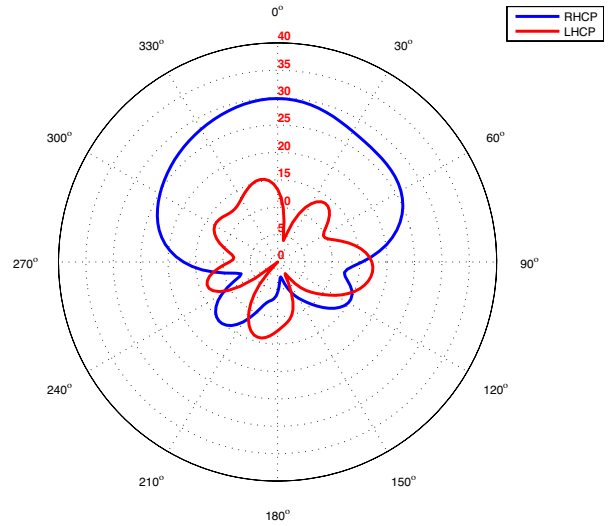
## Advantages

- 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 ± 0.2 mm
Max torque	4 Nm

