



# SPGA ROVER



**SPECTRA®**  
GEOSPATIAL



## DATASHEET

Optimized for GNSS base and rover applications

Robust low-elevation satellite tracking

Minimized multipath

Sub-millimeter phase center repeatability

Iridium and Japanese LTE filtering

## SPGA Rover Antenna

### Precise and Durable with Sub-millimeter Accuracy

The top of the range Spectra Geospatial SPGA Rover external GNSS antenna contains advanced technology for multipath reduction, outstanding low elevation satellite tracking and sub-millimeter phase center stability.

### Comprehensive GNSS Support

SPGA Rover GNSS antenna offers full support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, Trimble RTX and SBAS. Combined with rugged durability, the Spectra Geospatial SPGA Rover GNSS antenna is a long term investment.

### SPGA Rover

The SPGA Rover is a high performance lightweight GNSS rover antenna optimized for precision RTK applications. The SPGA Rover GNSS antenna is typically used in roving applications, but can also be used in base applications. It minimizes multipath and offers robust low-elevation tracking and sub-millimeter phase center repeatability.

- Comprehensive GNSS support, including GPS Modernization signals, GLONASS, Galileo, BeiDou, QZSS, and IRNSS
- Robust low-elevation satellite tracking
- Minimized multipath
- Sub-millimeter phase center repeatability
- Pair with the Spectra Geospatial SP90m GNSS receiver in either a base station or rover configuration
- Additional Iridium and Japanese LTE filtering
- High signal gain (50 dB) for reliable tracking
- 5/8" - 11 stainless steel mount point

**GENERAL SPECIFICATIONS**

- Broad GNSS Frequency Tracking Band, including:
  - GPS: L1, L2, L5
  - GLONASS: L1, L2, L3
  - Galileo: E1, E2, E5, E6
  - BeiDou: B1, B2, B3
  - IRNSS: L5
  - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and Trimble RTX
- Quality signal tracking, even below 5 degrees elevation
- Four point antenna feed for phase center stability and enhanced polarization
- TNC female signal connector
- Small cross-sectional area to reduce wind loading
- 5/8" - 11 female threaded stainless steel mount point
- Powered by GNSS receiver via coaxial cable
- Advanced LNA (low noise amplifier) to reduce jamming by high power out-of-band transmitters with 50 dB signal gain for reliable tracking in challenging environments and long cable runs
- Additional iridium filtering above 1616 MHz allows antenna to be used as close as 20 m of iridium transmitter
- Additional Japanese filtering below 1510 MHz allows antenna to be used as close as 100 m of Japanese LTE cell tower

**ENVIRONMENTAL**

- Operating Temperature: -40 °C to +75 °C (-40 °F to +167 °F)
- Humidity: 100% humidity proof, fully sealed
- Shock and Vibration
  - Vibrations: MIL-STD-810-F on each axis
  - Shock: MIL-STD-810-F 40g 11ms
  - Drop: 2m (6.56 ft) high on concrete
- Compliance: RoHS

**PHYSICAL**

- SPGA Rover Dimensions: 16.5 cm diameter x 7.6 cm height (6.5 in diameter x 3 in height)

**ELECTRICAL**

- Input Voltage: 3.5 V DC to 20 V DC
- Narrow Band Mode (1555 to 1559 MHz): >6.4 V DC to 9 V DC
- Wide Band Mode (1525 to 1559 MHz): 3.5 V DC to 6.0 V DC and 9.4 V DC to 20 V DC
- Input Current: 125 mA
- Signal Gain: 50 dB



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Please visit [spectrageospatial.com](http://spectrageospatial.com)

for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.