

TELEMETRY OPTIONS

IRIDIUM

For remote regions or when it just has to work, Iridium is the solution to collecting your data.

The Resolute includes optional RUDICS or SBD two way communication and control.



CELLULAR

The ubiquity of cellular networks around the world and relatively low cost of data make cellular the perfect option to autonomously collect data from the field.



900MHZ RADIO

For local networks, the 900 MHz Radio can transmit corrections and collect data, reducing your monthly overhead costs.



GNSS ANTENNA

The Resolute has built in antenna calibrations for all of the over 500 Antennas in the NGS antenna calibration program.



WHO WE ARE

Alert Geomatics, a division of Xeos Technologies Inc was formed to develop new geomatics products that combine the latest in oem GNSS receivers with advanced telemetry and embedded systems. Focusing on precise position monitoring, these products are used for subsidence monitoring & structural monitoring, as well as for science applications including polar ice and volcano monitoring.

Alert Geomatics leverages Xeos's unique experience in developing autonomous products for operation in some of the harshest environments on earth. Having a solid background in GPS tracking, Iridium product development & polar telemetry equipment, Xeos products can be found in all corners of the planet.

Xeos Technologies is a world leader in developing & marketing Oceanographic GPS and recovery beacons. Xeos is an Iridium Value Added Reseller and develops solutions with Iridium satellite technology.



Autonomous GNSS simplified.



TO VIEW ALERT GEOMATICS MANUALS:



- Precise Positioning
- Low Power
- Embedded Iridium/Cell
- External Sensor Logging
- Embedded Algorithms

EMBEDDED COMPUTING & LOGGING

The Resolute runs on an ARM processor, running an RTOS to manage the various peripherals built into the system. The RTOS allows simultaneous logging of external digital sensors.

This ARM processor can be utilized to run embedded algorithms so that only the most valuable data is transmitted and equipment costs reduced.

ALERT GEOMATICS
36 Topple Drive
Dartmouth, NS, Canada
B3B 1L6

Tel: 902.444.7650
Fax: 902.444.7651
sales@alertgeo.com
www.alertgeo.com

Visit us online for more information about our products:
WWW.ALERTGEO.COM

It's in the box!
ALERTGEO.COM



LAND SUBSIDENCE

OIL & GAS
MINING
AIRPORTS



STRUCTURAL MONITORING

BUILDINGS
DAMS
BRIDGES



POLAR/SCIENCE STUDIES

ICE SHEET
VOLCANO
TECTONIC PLATES



EXTERNAL SENSOR LOGGING

RS232, 485
SDI 12
ETHERNET



RESOLUTE PIN

The Resolute-Pin RTK Base and Rover generate precision position data for subsidence and three dimensional deformation monitoring. With a single base station, numerous Rovers can measure multiple points of interest.

The system is capable of outputting real time < 1 cm accuracy positions, or filtered and averaged < 1 mm accuracy positions. The Resolute-Pin system can be used as the primary deformation detection equipment on site, or as an augmentation to systems with integration drift.

- » L1, L2, L5, All constellations
- » 448 Channels
- » Less than 1.2 Watts Typical
- » 2 x 4GB SD Cards
- » Optional Iridium, Cell, Radio Telemetry
- » Flexible Data Formats
- » Small 6"x6"x3" Form Factor
- » -40° C to + 60° C
- » 28 Rovers per Base



NORTH STAR

The NorthStar expands the capabilities of your RTK network over geographical obstructions, extending the range of the Resolute-Pin RTK Base.

The NorthStar allows a wider area of measurement points rebroadcasting RTK corrections, while optionally receiving incoming data for serial output to a local server, automating data collection while saving data transmission costs.

- » RTK Correction Repeater
- » Less than 1.0 Watt Typical
- » Dual 900Mhz Radios
- » Small 6"x 6"x 3" Form Factor
- » 28 Rovers per NorthStar



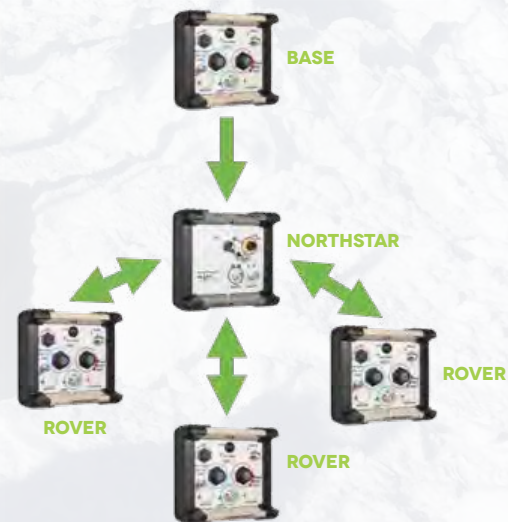
RESOLUTE POLAR

The Resolute Polar is a further ruggedized version of the Resolute, to extend the temperature range and conditions the Resolute can operate in.

With built in micro heaters, an IP67 rating and Iridium telemetry built in as standard, the Resolute Polar is built to withstand the harshest conditions or the Polar region. The low power of the Resolute and built in embedded data handling algorithms ensure the Resolute survives the dark and cold days of the polar winter.

- » L1,L2,L5, All constellations
- » Less than 1.0 Watt Typical
- » Included Iridium RUDICS and SBD
- » Compressed Data Formats
- » -55° C to +60° C
- » 2 x 4GB SD Cards
- » Small 6"x 6"x 3" Form Factor
- » Compatible with XeosOnline™ Tunnel

RTK NETWORKS



* Multiple network configurations possible