



Features

- **Highest Reliability**
- **Lowest Cost LEO Satellite Communications**
- **Environmentally Hardened**
- **Fully Waterproof**
- **Completely Self-Contained**
- **Smallest Simplex Tracker**
- **Multi-Year Battery Life**
- **Quick & Simple Installation**
- **Flexible Mounting System**

CALL FOR DETAILS!

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TrackPack

The North Star **TrackPack** is a highly reliable, self contained, environmentally hardened asset tagging and tracking solution. **TrackPack** uses the SENS CPDMA, an LPI LPD satellite communications system, to provide a robust, easy to use asset tracking solution.

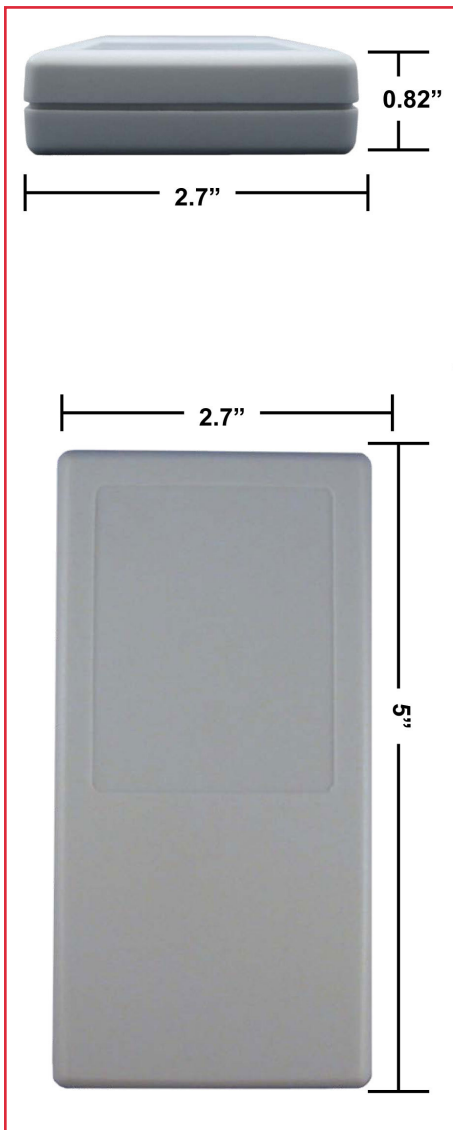
The self contained **TrackPack** unit has integral antennas and long life internal batteries. It can be wirelessly provisioned in the field using a wireless USB dongle.

The **TrackPack** is a complete, low cost of ownership solution, boasting the smallest Simplex Satellite Device transmission available in the market.

Specifications

Enclosure:	5" x 2.7" x 0.82" (127x69x21 mm)
Mass:	5.9 oz (167g)
Volume:	11.07 cubic inches
Temperature:	-40C (-40 F) to +85 C (+185 F) Operating
Humidity:	100% at 50 C, Salt, Fog Testing per MIL STD 810
Vibration/Shock:	MIL STD 810, SAE J1455
Water:	Waterproof, Full immersion at 1m depth
Battery:	Internal (primary), Ultrasonically Welded Li/FeS2 pack-3000mA-hr, 4.5VDC
Life Expectancy:	>5 Years at 2 messages per day >10 Year Storage Life (sleep mode)
Provision / Setup:	802.15.4 Wireless Interface for TrackPack Setup
Mounting:	Tape, Magnet, Mounting Plate, Screw, Velcro
Certifications:	- FCC part 15 and part 25, CFR - Industry Canada - ETSI EN 301 489-1-(2004-08) - ETSI EN 300 440-2 V1.2.1, ETSI EN 301 489-3 and ETSI EN 301-489-2 - UL913, Class 1, Division 1, ATEX and HERO in progress

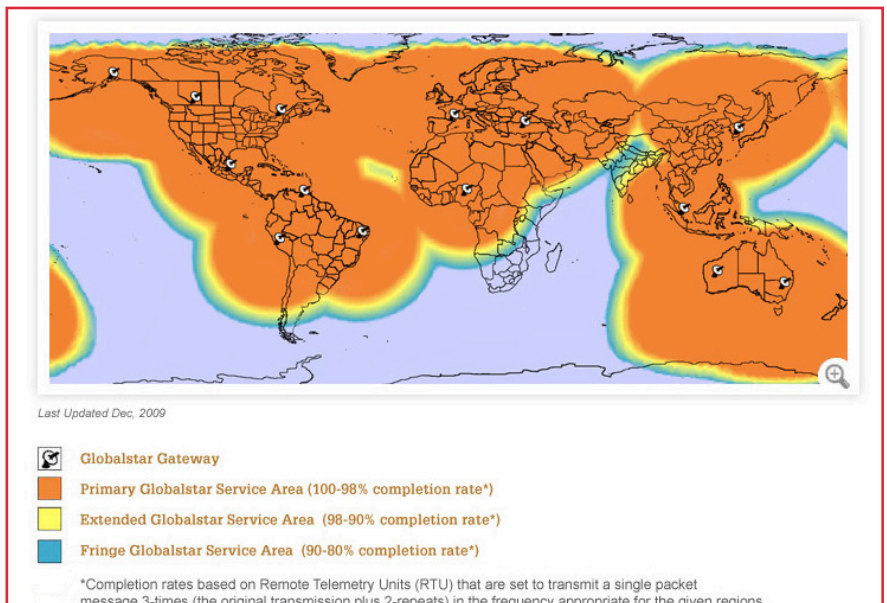
**Turning Tracking and
Monitoring into Knowledge**



Specifications

- Communications:
- Direct Sequence Spread Spectrum (DSSS)
 - 1610-1626 MHz in 4 Factory Assigned Channels
 - 2.5MHz bandwidth per Channel
 - 22dBm EIRP (max) for 1.4s Transmit Time
 - 9 byte User Payload per Message
 - Multiple Message Concatenation Available
 - Unique Serial Number (ESN) embedded in Each Transmission
 - CPDMA™ Simplex Transmission via the Globalstar LEO Constellation

- GPS:
- Acquisition and Tracking Sensitivity -160dBm
 - Operational to 1000 Knots (515 m/s)
 - Horizontal Position Accuracy < 5m
 - (50% CEP, 24 hrs, static, -130dBm)



Pricing

Hardware and Activation = \$275

Dongle = \$75

Airtime = \$5 per month plus 20¢ per message (i.e., GPS fix transmitted)

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