

**Improve Your Bottom Line**

**Increase Operational Efficiency**

**Protect Your Cargo**

## Features

- Total Solar Recharged Battery Operations - no connection to tractor or trailer for power
- Wireless sensors – load status, trailer doors, temperature, hookup, and more
- On-board geofencing to prevent and report unauthorized movement of trailers
- GSM/GPRS offers lowest power, lowest cost data transmission available
- Easy 15-minute self-installation - no wiring, alterations, special skills or tools needed
- Real time trailer, identification, location and automatic load status notification
- Customer-defined automatic alerts for violations
- International roaming available on all devices
- Simple-to-use web application
- Mapping and historical reporting of trailer activities

## Results-focused information

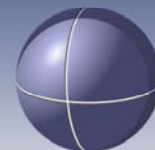
Real-time data allows you to maximize your trailer turns, increase utilization, and quickly locate empty trailers. Know within minutes when a trailer goes from full-to-empty or empty-to-full and help secure against loss and theft – increase margins while minimizing risk.

## True Untethered Tracking

Peel-and-stick installation, no wiring to the trailer and no wiring to sensors. The integral solar panel recharges the batteries without wiring to the trailer, and the Tr/IPSNET™ wireless sensor network provides sensor data without cutting holes or running wires. True GPS and GSM/GPRS cellular provides accurate position reports and roaming access on all GSM networks.

## Any time, any place information

Access trailer data 24/7/365 through the simple Internet application. Schedule status reports, get alerts, and ping trailers with industry-leading response times. Tr/IPS™ helps you run your operations with efficiency and peace of mind while making smart decisions that positively impact your bottom line.



# Product Specifications

## Technical Specifications

GSM/GPRS	Frequency (MHz) Receive Sensitivity Transmit Power Interface Protocol	850/900/1800/1900 -106dBm (typical) Class 4 (2W@850/900MHz), Class 1 (1W@1800/1900MHz) UDP / GPRS
GPS	Channels Position Accuracy Velocity Accuracy Time Accuracy Time To First Fix Sensitivity (Cold Start) Sensitivity (Hot Start)	12 1.2m (CEP95) 0.1m/s (RMS) 20ns (RMS) 36s (CEP50) -141dBm -156dBm
Wireless Sensor Network	RF protocol Interface protocol Transmit Power Max peripherals	IEEE 802.15.4 Proprietary 100mW 1024
Battery Characteristics	Chemistry Power Charge Cycles	Lithium-Ion 3.7V nominal @ 6600mAh 300-500
Solar Panel Characteristics	Power	7.2V @ 400mA (full sun), typical 4V @ 100mA (cloud cover)

## Environmental Specifications

Temperature	MIL STD 810-F: -10C to +65C
Rain/Moisture	MIL STD 810-F: 4" per hour blowing rain at 40MPH
Humidity	MIL STD 810-F: 95%RH non-condensing at 30C
Vibration	IST-3A Over-the-Road Trailer spectrum: 0.53gRMS
Shock	MIL STD 810-F: 30g @ 11ms, 18 trials repetitive

## Functional Specifications\*

Primary Operating Mode	Always On - 100% to 50% battery
Power save mode	Cyclical wake-up - (30 min to 2 hour) - < 50% battery
Primary Operating Mode battery life**	12-18 days
Power save mode battery life**	14-16 days @ 2-hour, 10-12 days @ 30-min
Battery Calendar life	~ 3 years
Fastest message transmission rate	30 seconds
Geofencing Range	Configurable, 100-10000 meters
Geofencing Response Time	Configurable, typically 30-min or 1-hr

\*Valid for fewer than 10 messages per day

\*\*Assuming no charging occurs

