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TrailTrac[®]

Trailer Locator
Container Locator
Train Wagon Locator

Technical Specifications

GSM Specifications	
GSM	Normal MS-SMS data only
900/1800/1900	Class 4 (2W) at 900 MHz (EGSM) Class 1 (1W) at 1800 MHz (GSM 1800) and 1900 MHz (GSM 1900 PCS)
SIM	1.8V/3V
Type Approvals	FCC Part 15, FCC Part 24, CE MARK, E Mark

GPS Specifications			
General	L1 (1575.42 MHz) frequency, C/A code 12-Channels, 48 Correlators		
Sensitivity	Minimum -136.0 dBm Acquisition without external assistance		
Accuracy	Horizontal	<6 meters (50%)	
	Altitude	<11 meters (50%)	
	Velocity	0.06 m/sec	
Acquisition	Signal Power	-130.0 dB	-136.0 dB
	Hot Start (50%)	<24 sec	<400 sec
	Warm Start (50%)	<38 sec	
	Cold Start (50%)	<90 sec	
Dynamics	Acceleration	4g (39.2 m/sec ²)	
	Motional jerk	20 m/sec ³	
Datum	WGS-84		

Environmental Specifications		
Temperature	Operating	-20°C to +55°C
Humidity	5% to 95% RH non-condensing at +40°C	
Casing	IP 67 standard	
Vibration*	0.008 g ² /Hz	5 Hz to 20 Hz
	0.05 g ² /Hz	20 Hz to 100 Hz
	-3 dB/octave	100 Hz to 900 Hz
Shock*	Operational	40g for 11 milliseconds
	Non-operational	75g for 6 milliseconds

Physical Specifications	
Size	170 mm x 170 mm x 60 mm 350 mm x 95 mm x 50 mm
Weight	1500 gram

Electrical Characteristics	
Primary Power	Lithium or Alkaline
Battery Life	Up to 24 month, (10 reports/day, GSM coverage, -130 dBm GPS)
Connectors	Door sensors, custom



Introduction

The world's first affordable and fully integrated train wagon, container and trailer tracking device for applications requiring position reporting and cost-effective wireless communication in environments where onboard power is lacking.

The TrailTrac® locator delivers immediate and ongoing value. The device offers global GPS location technology with GSM communication. This unprecedented level of integration promotes reliability, functionality, and power conservation, while dramatically reducing the size and cost of the unit.

Business generator

The goal when developing the TrailTrac® has been to meet the demands from professional logistics companies. This means a fine balance between cost and features. Looking back at the "position based services" history, cost has been the key factor impeding volume rollouts. Knowing this our primary goal has been to develop a product that adds enough business value but does not cost too much.

TrailTrac® locator's low initial price and ongoing savings from reduced installation and communication costs allows system integrators and ASPs to offer services to a previously untapped segment of the telematics market. It is ideally suited for applications that require rapid and widespread deployment.

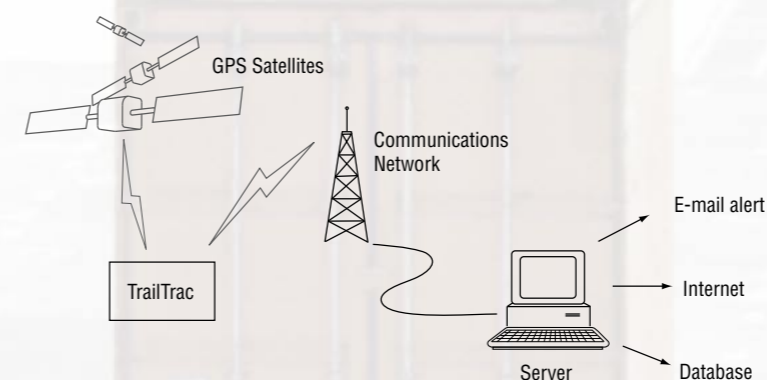
Business Value

Look upon the TrailTrac® as a tag which enables you to at any given time locate it together with what it is attached to. Translated into business value this means:

- Increased quality through position based verification
- Enables innovative customer relations services
- Added safety decreasing insurance cost of goods
- Recovery of lost or stolen assets
- Enables precise optimized planning
- Online deviation reports
- Creating a database containing business critical information - *to improve your business you must first be able to measure it*

Differentiated Services

The modular architecture of TrailTrac® enables rapid application development and customization to help you differentiate your offerings and respond quickly to evolving market needs.



KEY features

- Complete, low cost, end-user device in waterproof housing
- 24 month typical operation time
- Built in GPS receiver
- Built in GSM functionality
- Configurable "over the air"
- No external wires or antennas permits easy installation
- Small size allows discrete placement
- Worldwide coverage
- Cost effective communication, SMS
- Enhanced GPS sensitivity for indoor and outdoor position reports
- Built in motion sensor



TrailTrac®

