



Guardian Tracking Systems

Never Lose Track of What's Important to You...

Put yourself in the passenger seat of every vehicle

iTrac3C-900 Data Sheet



Key Benefits

- Economically priced device
- Superior GPS & cellular quality
- Built-in cellular and GPS antenna option for easy installation
- Built-in 3 direction motion sense and alerting
- 4 inputs / 4 outputs
- Highly configurable
- Power management sleep modes
- Automatic, over-the-air configuration on power-up
- Automatic, over-the-air firmware download
- Simple, easy to use, diagnostic tools

The iTrac3C-900 is an economical vehicle tracking product designed for easy and reliable installation in automobiles. This unit is an ideal solution for automotive insurance, stolen vehicle, vehicle finance, auto rental and other automotive tracking applications.

Competitive Price, Competitive Technology, Competitive Edge

The iTrac3C-900 from 2-Track is a complete vehicle tracking and communications device that features a small size, superior GPS performance and improved power management. It is designed to dramatically reduce cost, power and size while maintaining excellent field reliability.

Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the 900 mountable virtually anywhere in the vehicle for easy, inexpensive installations. The 900 delivers a new level in standby current consumption. The device's intelligent power management algorithms result in a deep sleep mode current of less than 1 mA.

Flexibility

The 900 employs an industry leading on-board alert engine. This advanced application monitors vehicle conditions and supports hundreds of customized exception-based rules to help meet customers' dynamic requirements. Customers can modify the behavior of the device to meet several applications before shipment or in the field. Combining affordability and device intelligence with your unique application provides the most flexible tracking device in its class.

Over-the-Air Serviceability

The 900 also incorporates an industry leading over-the-air device management and maintenance system software PULS™ (Programming, Updates, and Logistics System). Configuration parameters, PEG rules, and firmware can all be updated over the air. Our web-based maintenance server, PULS™ scripts, and firmware, can all be updated over-the-air. PULS offers out-of-the-box hands free configuration and automatic post-installation upgrades. You can also monitor unit health status across fleets to quickly identify issues before they become expensive problems.

Key Features

- GPRS and SMS-Based Messaging
- Internal GSM/GPRS and GPS Antennas
- Super Sensitive GPS (-160 dBm tracking)
- Ultra-Low power safe mode (<1mA)
- Voltage Monitoring and Low Battery Notification
- 2000 Buffered Messages
- 4 Built-in Geo-fences
- PEG™ Exception-Based Rules
- Automatic, Over-The-Air Unit configuration on Power-up (PULS™)
- Over-The-Air Firmware Download (PULS™)
- Web-Based Device Management (PULS™)
- 3 Axis Accelerometer for Motion Sense
- 4 Inputs/4 Outputs

iTrac3C-900

General Specifications

Communication Modes	GPRS packet data and SMS
Location Technology	50 Channel GPS (with WASS)
Operating Voltage	6-32 VDC

Location Specifications

Location Technology	50 Channel GPS (with SBAS, DGPS)
Location Accuracy	3.0 meter CEP (with SA off)
Tracking Sensitivity	-160 dBm

GSM Specifications

Data Support	SMS, GPRS (UDP)
Cellular/PCS	FCC-Parts 22,24; PTCRB
GPRS	Up to class 12
Quad Band	850/900/1800/1900 MHz
Output Power	850 (Class 4) 2W 900 (Class 4) 2W 1800 (Class 1) 1W 1900 (Class 1) 1W

Comprehensive I/O

Inputs	4
Relay Driver Outputs (150 mA)	4
Status LEDs	GPS and Cellular

Certifications

Fully Certified FCC, CE, IC, PTCRB, CARRIERS

Optional Features/Functions

- Starter Interrupt Harness
- OBDII Easy Install Harness
- External Backup Battery
- Serial Cable

Development Support Options

- Custom Hardware and Software Development Available

Electrical Specifications

Operating Voltage	6-32 VDC
Power Consumption	
Deep Sleep	<1 mA @ 12V
Sleep on Network	<10 mA @ 12V
Active Standby	<70 mA @ 12V

Physical Specifications

Dimensions	54 x 89 x 16 mm 2.125 x 3.5 x 0.625 Inches
Weight	74g (internal)
Status LEDs	GPS and Cellular

Environmental Specifications

Operating Temperature	-30° to +75° Celsius
Storage Temperature	-40° to +85° Celsius
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	US Military Standards 202G and 810F, SAEJ1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada RoHS Compliant

Connectors, SIM Access

SIM Access	Internal
I/O power, programming	20 pin Molex-type fused power harness

Mounting

Tie-wrap, Adhesive, or Velcro
Screw Mount Tamper-resistant/Tamper-evident Bracket