



Guardian Tracking Systems

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

Put yourself in the passenger seat of every vehicle

iTrac3C-1200 Data



Key Benefits

- Economically priced device
- Superior GPS & cellular quality
- Built-in cellular and GPS antenna option for easy installation
- Built-in motion sense and alerting
- Internal backup battery
- 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-1200 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-1200 high-value tracking unit features a small size, superior GPS performance, an internal 700 mAh backup battery and Inputs/Outputs (I/O). The 1200 is a complete vehicle tracking and communications device incorporating next-generation, super-sensitive GPS on GSM/GPRS cellular networks for installation in any 12 or 24 volt mobile vehicle.

Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the 1200 mountable virtually anywhere in the vehicle for easy, inexpensive installations. Messages are transported across the GSM/GPRS network using enhanced SMS or UDP messaging providing a reliable communications link between the device and your application servers. The 1200 is designed to dramatically reduce cost, power and size while significantly improving field reliability.

Flexibility

The 1200 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 1200 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.

Key Features

- GPRS and SMS-Based Messaging
- Internal or External GSM/GPRS and GPS Antennas
- Super Sensitive GPS (-160 dBm tracking)
- Internal Back-up 700mAh battery
- Integrated Motion Sense
- 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™)
- 4 Inputs/4 Outputs

iTrac3C-1200

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 GPS and Cellular Antenna option
- Internal GPS and Cellular Antenna option
- 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 24 mm 2.125 x 3.5 x 0.93 Inches
Weight	2.9oz, 83g
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
External GPS	SMA (with tamper monitoring, 3V)
External Cellular	SMC
I/O power, programming	20 pin Molex-type fused power harness

Mounting

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