



Guardian Tracking Systems

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

Put yourself in the passenger seat of every vehicle

iTrac3C-2600 Data



Key Benefits

- Superior GPS & cellular quality
- Built-in cellular and GPS antenna option for easy installation
- 5 Inputs/30 outputs. 1-wire Interface for Driver ID, Temperature Sensors, and more
- Highly configurable
- 3 Axis Precision Accelerometer
- 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-2600 fleet tracking unit offers leading edge technology including a new 3D accelerometer for measuring driver behavior and vehicle impacts while offering high reliability fleet customers demand.

Competitive Price, Competitive Technology, Competitive Edge

The 2600 is a robust fleet device you can count on for AVL applications. It incorporates leading GSM-GPRS wireless communication and extra sensitive GPS in an affordable package. High-sensitivity GPS and an internal antenna option also means the device can be mounted virtually anywhere for less expensive installation. The iTrac3C also features 3D accelerometer to detect and act on hard braking, hard acceleration, vehicle impacts, and crashes.

Flexibility

The 2600 features an industry leading advanced on-board alert engine that monitors vehicle conditions giving you the most flexible tracking device in its class. The PEG™ (Programmable Event Generator) application supports hundreds of customized exception-based rules to help meet customers' dynamic requirements. Customers can modify the behavior of the device to meet with range of applications preprogrammed before shipment or in the field. Combining affordability and device intelligence with your unique application can give you distinct advantages over your competition.

Over-the-Air Serviceability

The iTrac3C-2600 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 your customers' fleets to quickly identify issues before they become expensive problems.

Key Features

- GPRS and SMS-Based Messaging
- Internal or External GSM/GPRS and GPS Antennas
- High Sensitivity GPS (-160 dBm tracking)
- Low power modes
- Integrated 3-axis accelerometer for motion, hard braking, hard acceleration, impacts and crash detection
- Voltage Monitoring and Low Battery Notification
- 5,000 Buffered Messages
- 32 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™)

iTrac3C Specifications (model 2600)

General Specifications

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

Location Specifications

Location Technology	50 Channel GPS (with SBAS, DGPS)
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-160 dBm
In-vehicle mapping	NMEA GPS output
AGPS Capable	

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	5
Serial Interfaces	2
Relay Driver Outputs	3
A/D Inputs	2 (1 internal, 1 external)
1-Wire Interface	Driver ID Temperature Sense
Status LEDs	GPS and Cellular
Power Harness	Included with Two (2) 3A Fuses

Certifications

Fully Certified FCC, CE, IC, PTCRB, CARRIERS

Optional Features/Functions

- Driver ID with 1-Wire® protocol
- Temperature Sensing via 1-Wire® protocol
- Backup Battery
- External GPS and Cellular Antennas
- Internal GPS and Cellular Antennas
- NMEA Serial Cable
- External A/D input
- Serial Cables
- JPOD truck ECU interface
- Piezo speaker, panic button, and privacy button

Electrical Specifications

Operating Voltage	6-32 VDC
Power Consumption	
Deep Sleep	<3 mA @ 12V
Sleep on Network with SMS	<10 mA
Sleep on Network with GPRS	<20 mA
Active Tracking	<70 mA @ 12V

Physical Specifications

Dimensions	51 x 102 x 22 mm 2.0 x 4.0 x 0.85 Inches
Weight	74g (external), 85g (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

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 Mounting Bracket