GT-2000

GPS/GPRS/SMS Personal Tracking and Security System



what is it?

The GT-2000 is a simple to use, GPS tracking, monitoring and security device. It can be carried on a person or it can be attached to an object that requires tracking.

what does it do?

The GT-2000 allows a person, vehicle or any asset to be remotely monitored and tracked over the internet in real time. It can send reports containing information about its position, speed and direction of travel etc. A user can send 'Help' or 'SOS' reports, and, with its built-in voice function, can receive phone calls and make emergency phone calls.

who is it for?

The GT-2000 is simple to operate, so it can be used by anyone - even the young and the elderly. It can be used by executives for extra security while travelling, lone workers, emergency services personnel and correctional authorities for tracking offenders etc.

what applications is it for?

The GT-2000 is web-based, so it can easily integrate into a wide range of business and personal applications. For personal use, it can be used for child tracking, recreational or sporting use. For commercial use, it can be used for mobile resource management and field worker productivity. It can also be used as a 'last resort' security device for private aviation use.

what's so special about it?

Simple to operate Small, light, easy to carry and concealable Receive phone calls from anyone Make phone calls to preset phone numbers Can be used in vehicles Web-based for easy integration



Design features

Small and light Sony Ericsson GPRS module Sarantel omni-directional GPS antenna SiRF Star III GPS module for high GPS signal sensitivity Intelligent power saving functions COM port for easy, fast data transfer to a PC LED indicators display the system's working status

Special functions

Send 'Help' and SOS' reports Multiple reporting methods 4 fully configurable circular geofences

1 configurable self-geofence function

Monitor mode 1: If the carrier thinks he is in a high risk situation, he can press a button to activate a microphone in the unit, so that the monitoring centre (or anyone that phones the unit) can eavesdrop on the situation.

Monitor mode 2: Anyone who knows a preset password can 'call' the unit and eavesdrop on the unit's surroundings at any time (even without the carrier knowing).

Built-in tilt sensor means that if the device is moved, then it will automatically send a 'trigger' report

how does it work?

The GT-2000 device collects information about itself (such as speed, direction of travel etc). All of this data is then transmitted in a report through the GSM network to the internet where it is received by the server (both UDP & TCP protocols are supported).

If there is no GPRS service, or if the server is closed, then the report will be sent via SMS to a preconfigured telephone number. In the interim, all reports will be stored on the unit's internal flash memory (which can store up to 900 reports). When the unit eventually reconnects with the server, all stored reports will be automatically forwarded.

what data is in the report?

Date and time of report Unit's location Unit's speed Unit's direction of travel battery status

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how often can a report be sent?

When, and how often a report is sent is fully configurable. These include:

Real-time tracking: The device's position and its status can be monitored in real time (usually using mapping software).

Fixed time/distance reporting: A report can be sent to the server at fixed time intervals (e.g. every 10 mins) or at fixed distance intervals (e.g. every 10km)

Report on demand: A remote user can poll the device and request a report on demand.

Event reporting: A report can be sent to the server when:

The unit is shaken while in 'rest' mode Unit's carrier activates the 'Help' or 'SOS' commands Unit strays inside/outside of a geofence area Unit's speed exceeds a preconfigured limit Battery power falls to a certain level Unit changes direction of travel*

what can the unit's carrier do?

Make phone calls to any of 3 preset numbers Receive phone calls from anyone Activate the 'Help' or 'SOS' commands Activate/deactivate the monitor modes Activate/deactivate a self-geofence Select the alert method for incoming calls (ring, vibrate or both)

what can be operated remotely?

Anyone can make a phone call to the unit Anyone with the 'password' can eavesdrop on the unit's surroundings at any time (without the carrier knowing) Persons without a password can eavesdrop on the unit's surroundings (with the carriers permission) Anyone can poll the unit by phone/SMS to request a

Anyone can poll the unit by phone/SMS to request a report

Enable/disable any of the power saving modes.

* With Trimble module version only



1. A SIM card from a GSM provider.

2. A server.

3. As an alternative to a server, If you need to track up to 50 devices , Portman offers the M2 Mercury system. This is basically a GSM modem (connected to your PC) that will receive the vehicle data via an SMS report. The SMS data is then transferred from the modem into the PC (which must have either Microsoft MapPoint or any mapping software using standard 'MapInfo' or 'ESRI' formats). Please see separate datasheet on the M2 for more information.

can it be customised for me?

The GT-2000 is available in a choice of two GPS modules. If there are any special functions that are required, then we will try to accommodate them. Under an OEM arrangement, we can customise and re-brand the product including your logo, customised software, packaging, labeling, printing and instruction manuals etc.

how can i try it out?

Please contact us if you would like to order a sample.

what if something goes wrong?

All Portman products and accessories come with a one-year warranty.



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what comes with it?





All-in-one PC Setup and Data Transfer Cable



Battery Charger



In-car Holder (Optional Extra)



Cigarette Charger (Optional Extra)

physical parameters

Dimensions (mm) Weight

electrical

Power DC supply voltage Recharge voltage Current (GPRS online) Current (GPRS transmitting) Current (peak) Current (sleep mode)

Internal battery Battery type Battery capacity Charge type

environmental

Operating temperature Storage temperature

i/o connections

Power on/off button 3 speed dial buttons 1 volume adjust button



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94 x 60 x 28.5 100g

3.5V 5V-6V 80mA 120mA 300mA 15mA

> Lithium 3.6V 1.6 A/h Built-in charge circuit

-20°C to +55°C -40°C to +85°C

gprs module Frequency range (MHz)

Channel spacing (Hz) GPRS connectivity

SIM card interface SMS storage capacity Antenna type Antenna impedance

gps module

Communication Chipset Channels Protocol Baud rate Signal Antenna type

GPS Accuracy Accuracy Velocity Max altitude

GPS signal acquisition

Hot start Warm start Cold start Reacquisition Snap start 900/1800 or 850/1900 (both models available) 200 GPRS multi-slot class 8 GPRS mobile station class B 3v/5v 40 in ME Embedded 500hms

SiRF Star III technology 20 NMEA0183 4,800 L1 1575.42 MHz Embedded omni-directional

(% of the time) <5m 0.1m/s 18,000m (60,000ft)

(% of the time)

<8s <38s <42s 0.1 sec average 1 sec average