

# Totally Personal.....the PT-101



**Voice  
& GPS**

## QUICK OVERVIEW

- Quad-Band GPS/Voice Phone
- GPS/A-GPS with 14 Satellites
- Internal GPS receiver/GPS antenna
- Inbound and Outbound Calling
- Motion Sensor
- Vibrating Alert
- Push to Talk for Voice calls
- Speaker/microphone
- Timed GPS Update
- Distance GPS Update
- Speed Exception
- Mileage Updates
- Valid/Invalid GPS Reporting
- Idle Reporting
- Stay Awake while moving
- Wake-Up and Keep Alive
- Auto-Activate, Auto Reset
- Fixed outbound calling
- Low battery update
- Geo-zone exit/entry

Deploy one of the most affordable and complete personal tracking/voice devices on the market today. The PT-101 Personal Tracker offers the opportunity to provide vehicle monitoring, personal safety, security, and recovery services.

The PT101 is a miniature device that allows consumers or fleet managers to remotely track the position of a loved one, pet, asset or any other important item in real-time through the Internet. The PT101 Personal Tracking Device combines the technology of global positioning satellites (GPS), cellular phone communication and the Internet in a compact device that upon request can transmit its exact location in seconds to give the end-user a complete solution.

- Teenager Driver Tracking
- Portable Asset
- Alzheimer /Adults
- Container tracking
- Mobile asset tracking
- Boat tracking and monitoring
- VIP Security

- Stolen vehicle recovery (SVR)
- Advanced vehicle tracking
- Vehicle monitoring and security
- Truck or trailer tracking
- Cars, Boats, Motorcycles, ATV
- Sales and Service People in the Field
- Fleet Management

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A key component to the PT101 Personal Tracking Device is the FleetLinc website control panel. Through this password protected user interface, the customer can locate their device (s), identified online as a user defined nickname such as Sean, Volvo, Cart etc. Through proprietary mapping software, users can see street address detail for the location of their device, or zoom out to get a wide-angle view of the device's location. Users can define a territory, known as a GeoFence in which the device can travel freely but when the device travels outside the GeoFence area, an Alert is provided. The Web Site also provides a relay facility and multiple reports enabling the customer to provide historical information quickly and easily.



**The size of a deck of playing cards, the PT-101 can be easily concealed or attached to a loved one, a pet, or a valuable asset. Never before has GPS, GSM and the Internet been integrated into such a small device and with limitless applications....**

## Supports essential features:

- Compatible with GSM/GPRS Cellular networks
- 850/900/1800/1900 frequency bands
- Voice / SMS / GPRS
- POWER-trak 3 PC/Desktop Professional GPS Tracking Software
- FleetLinc web based GPS Tracking Fleet Management software
- GPS/A-GPS with tracking of up to 14 satellites
- Time to first fix: 2 s @ 5 m; 2 sec navigation fixes (with assistance data)
- Autonomous and "Enhanced" Autonomous
- 3GPP A-GPS standards compliant
- Factory programmed to user settings or user programmable

## Integrated

- GPS receiver and GPS antenna
- GSM cellular transceiver, with GPRS/SMS and GSM antenna
- Motion Sensor
- Vibrating Alert
- Push to Talk for Voice calls
- Speaker/microphone
- Internal SIM accessed via battery compartment
- Mini USB jack for power, programming and external GPS data output Vehicle power adapter (Optional)
- Supports GSM Voice, SMS, GPRS packet data and GPS
- Supports on the Fly geo-fence creation with Alerts

## Programmable Features

- Timed GPS Update
- Distance GPS Update
- Speed Exception
- Mileage
- Valid/Invalid GPS Reporting
- Idle Reporting
- Stay Awake while moving
- Wake-Up and Keep Alive, Auto-Activate
- Motion sensor and vibrating alerts
- Auto Reset
- Voice cell phone number
- Fixed outbound calling
- Low battery update
- Geo-zone exit/entry
- On demand geo-zone creation



USB Connector/Headset Jack



### **Push To Call (PTC)**

The Push To Call (PTC) switch allows the user to place a call to a number that has been programmed. To meet GSM specification, pressing the PTC button with no SIM installed will cause the unit to initiate a "411" call. The application provider will need to configure the emergency number for its region.

### **Set Geo-Fence**

The switch is used to initiate a geo-fence with a default radius of one-half mile. This radius may be re-defined by the application provider and is retained in non-volatile memory. If GPS is not available an error tone will be generated to alert the user that no geo-fence was set.

### **User-Defined button**

The User-Defined button is a programmable button that can be defined for various functions. Some *examples* of these functions include: generate a call to a number different from the PTC button, generate a geo-fence with different parameters than the geo-fence button, send an SMS of the current location to a cell phone, send the current location to the server, etc.

### **Volume Buttons**

The PT-101 has two volume buttons for controlling the audio volume level. These buttons are functional whether in a call or not. The '+' button is used for increasing volume and the '-' button is used for decreasing volume.

### **USB Connection**

The USB connector is used for charging the battery and for data communication. The unit will charge from a laptop computer, AC to USB power adapter, or vehicle power to USB adapter.

Data communications with the PT-101 is also performed through the USB connector. The USB connection is used to configure or customize the PT-101 operation. This connection also is used to provide GPS NMEA data to a mapping or user application.

### **Headphone Jack**

The headphone jack provides the user with the ability to connect a standard 2.5mm headset (not supplied with the modem) when the speakerphone mode is not desirable.

### **Speaker**

An integrated speaker allows the user to make a phone call to the pre-configured dispatch number when in hands-free mode. The user can adjust the volume to a comfortable level using the volume up ('+') or down ('-') buttons.

### **Microphone**

A built-in sensitive microphone allows the user to communicate with the dispatcher comfortably at up to 3 feet away for hands-free operation.

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### **LED Indicators**

There are four LED's used to provide status to the user.

### **SIM**

A SIM cardholder is located under the battery on the bottom of the PT-101. The SIM card is required to enable the voice and data communication capabilities of your PT-101 device.

### **Battery**

A 1340mA/H Li-Ion battery is supplied with the PT-101 that will allow operation without USB power. The PT-101 battery life varies based on configuration and use of the PT-101.



## CHARACTERISTICS

Dimensions (L x W x H)  
Housing

100.4 x 59.0 x 25.4 mm  
Polycarbonate

## RADIO PERFORMANCE

Frequency (MHz)  
Transmit power

850/900/1800/1900  
Class 4 (2W@850/900 MHz)  
Class 1 (1W@1800/1900 MHz)

## PACKET DATA

Mode  
Protocol  
Coding schemes  
Packet channel

Class B, Multislot 8  
GPRS Release 97 & 99, SMG 31  
CS1-CS4  
FBOCH/PCOCH

## GSM FUNCTIONALITY

Voice  
CS data  
GSM SMS

AMR, EFR, RF & HR  
Asynchronous; Transparent and Non-Transparent up to 9.6 kb  
FDD, MQVMT, Cell Broadcast

## GPS FUNCTIONALITY

- Autonomous and "enhanced" autonomous
- GPS operations with optional multi-day ephemeris service
- Tracking of up to 14 satellites
- 3GPP A-GPS standards compliant
- Supported protocols: SUPL, NMEA

## OVER-THE-AIR COMMANDS

I/O control, GPS TX internal, binary reporting, timed reporting, alarm reporting, maximum speed exceeded, status change reports, GPS content, event reporting, distance reporting and geo fencing

## SIM/INTERFACE/I/O

SIM  
Interface  
Audio  
Power

Internal 3 V SIM accessed via battery compartment  
Mini USB jack for power and local data access  
2.5 mm headset and I/O  
Optional vehicle power adapter

## SOFTWARE

Host protocols  
Internal protocols  
API control/status

AT, UDP/API, TCP/IP  
PPP, UDP/API, UDP/PAD, CMLX, TCP/PAD  
AT or UDP

## ENVIRONMENT

Operating  
Storage  
Humidity

-30°C to 70°C  
-40°C to 85°C  
Up to 95% non-condensing

## POWER

Battery  
GSM hibernate

GSM operating power (typical)

Rechargeable Li-Ion 1340 mAh standard, 2000 mAh optional  
100 µA

Band	Mode	Avg (mA)
GSM	1TX/1RX	150
	Idle	<1

## CERTIFICATIONS

FCC  
GCF  
PTCRB  
Industry Canada (CSA)  
CE Mark  
RoHS Compliant

Parts 2, 15, 22 & 24  
Version 3.21.1  
Version 3.7.1  
Yes  
Yes  
Yes



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