

The best friend you can have.

Raveon's **ATLAS PL** is a personal GPS transponder that provides immediate location, tracking, and alerting of your personnel while engaged in critical activities.

The **ATLAS PL** has an "Emergency Alert" button as well as a "man down" tilt sensor. The **ATLAS PL** helps you focus and protect your highly trained professionals in whatever mission critical operations you may face.

The real-time situational awareness provided by the **ATLAS PL** allows you to orchestrate personnel efforts for optimal operations, and helps you bring your people home safely.

The **ATLAS PL** is the fastest completely-integrated real-time GPS tracking transponder available. It uses VHF or UHF radio channels with no service fees or monthly charges, and works virtually anywhere.

The **ATLAS PL** is fully compatible with the RavTrack series of vehicle tracking devices and software, allowing complete real-time tracking of personnel, vehicles, and other vital assets in one system.



Applications

- Training:** Study your training exercises in real-time, The **ATLAS PL** allows you to capture the activities of any trainee group and save them for later replay and critique. Soldiers can request support or alert operations to a critical situation.
- Fire Fighters:** Know where your personnel are while battling any situation. Coordinate team efforts, and minimize unnecessary dangerous exposures. Best of all, with Raveon's ALERT! button, your people can immediately summon help to their position.
- Police:** Know where your officers and first-responders are no matter their mode of travel. See the tactical situation in real-time, identify who is closest to the scene, and respond with the right person in the right place and at the right time.
- Search and Rescue:** Coordinate in concert the efforts of your rescue personnel. Retain and refer to a dynamic map record of all areas searched, ensuring thorough coverage. Proactively equip outbound people with an **ATLAS PL** and pinpoint their location at any time.

Features

Real-Time

Position and status updates are available as quickly as every second. Coupled with the rapid update capabilities the extremely short assures you that any position reports and alerts sent will post to your display(s) very quickly.

Complete

Everything needed to track a vehicle or asset is provided. No secondary services like WiFi, cell-service, GPRS, Edge, SMS, or satellite service is needed. The **ATLAS PL** allows you complete control over your infrastructure.

No Monthly Charges

Because no external services are required, there are no recurring costs for a RavTrack system.

Totally Portable

The **ATLAS PL** is completely self-contained and portable. Meant to be worn by personnel in a variety of activities, it weighs just 16 ounces even with the built-in rechargeable batteries. Simple to operate, just “turn it on and go”. Furthermore, the **ATLAS PL** has some of the lowest power-consumption in the industry. The transponder features flexible reporting options, while a remote controlled sleep mode allows it to be active and consume almost no power at all.

Rugged and Weather Proof

Integrated into an IP-67 rated watertight enclosure all SM models include protection against damage from water, over-temperature, high VSWR, and overcharge.

Works Everywhere

The **ATLAS PL** does not rely upon public wireless services, so your systems work in rural areas, forests, mines, mountains, deserts, foreign countries, and even open water.

Long-Range Operation

Using narrow-band VHF and UHF radio channels, the **ATLAS PL** can communicate as far as 30 miles (depending upon terrain). All **ATLAS PLs** also can store-and-forward repeat for wide-area coverage, and fully interoperate with other M7 series GPS enabled radio in the RavTrack family.

High Speed and High Efficiency

The **ATLAS PL Transponder** operates with fast over the air data rates. Its fast-switching radio enables it to send up to 20 position-transmissions per second.

Flexible Reporting

The **ATLAS PL** may be configured to transmit position and status reports at pre-set time intervals (programmable), when it has moved a certain distance (programmable), when an I/O changes, when it has stopped moving, is laid-down, or a combination of these.

Easy to Use

The **ATLAS PL Personal Locator** is very simple to use. Turn it on, and once GPS signal is acquired, it begins sending its position. Power-Off may be disabled so that only the command-center can turn it off.

Safety Features

On the top of the **ATLAS PL** is a dual-function user-activated alert button. Pressing sends an “Alert”, and when held down for 2 seconds, causes the unit to transmit a “Critical Alert” code indicating the alert condition.

Using the internal position sensor, position transmissions and man-down alerts may be triggered by position, motion, or lack-of motion.

Proximity Alerts

Each **ATLAS PL** may be configured to transmit an alert, as well as signal an output circuit whenever it is in proximity of another M7 series GPS enabled radio. This feature is useful for collision avoidance, theft security, or other applications.

Remote Management

Commands may be sent over-the-air to the **ATLAS PL** to put interrogate it, modify its reporting rate, and modify certain parameters in it.

Long Battery Life

Operating as a GPS transponder with the receiver off 95% of the time, the expected operation duration from a full charge is:

Report Rate	Battery Life 0°C-40°C
30 seconds	60 hours
60 seconds	66 hours
90 second	68 hours
4 minutes	72 hours

Simple to Interface

The **ATLAS PL** is very simple to use and is designed to integrate with a variety of software, plotters, GPS displays, and external devices including:

- *Lowrance GPS displays and navigation*
- *Garmin hand-held GPSs*
- *Any GPS with an RS-232 NMEA interface*
- *RavTrackPC software by Raveon*

- *Marine Radar Displays*
- *Biotelemetry sensors*
- *Laser range finders*
- *Your own custom application.*

Visual Mapping

The activities of all **ATLAS PL** units are easily visualized by a number of mapping applications, including *RavTrack PC*, which allows you to import your own custom maps.



Secure

All position reports are 128-bit AES encrypted for secure communications. No other radio modem, from Raveon or otherwise, will be able to listen in or monitor positions without knowing the security key.

How It Works

The **ATLAS PL** has many advantages over conventional tracking radios. These include:

TDMA Channel Access:

TDMA (Time-Division Multiplexing) is built into every **ATLAS PL** radio modem. With TDMA, 100 vehicles may be tracked with 5-second updates and no RF interference. Even when using a repeater!

Data Compression:

All location transmissions are compressed, allowing not only location to be sent, but also voltage, temperature, status, speed, direction, and time – and do this with less air-time than most radios use to simply transmit their location.

Advanced modulation:

The M7 series operate at 4-10X that speed using CPFSK2/4 modulation for data rates as high as 19.2K over the air.

Fast Switching:

The **ATLAS PL** transceiver has a fast-lock PLL with a lock-time of only 2ms, and a T-R turn-around time of less than 3msec. This enables the radio to make real-time transmissions in TDMA or conventional modes.

Exceptional GPS reception:

The Geo-Helix GPS antenna has outstanding GPS satellite reception, and coupled with the internal 12-channel Trimble GPS receiver, makes an exceptional GPS receiver. The unit will accurately report GPS position even when lying sideways or secured to someone's body.

