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Cellocator Division  
Pointer Telocation Ltd.

## CELLOCATOR™ COMPACT OLYMPIC

VEHICLE EVENT LOGGER  
AND TRACKING UNITS

**The Cellocator™ Olympic is an innovative integrated fleet-management unit with superior location, tracking, event-driven reporting, logging, and security capabilities.**



### Cellocator Compact Olympic

The Cellocator™ Compact Olympic is a Public Safety device. The security tracking choice for 2004 Athens Olympic Games. Compact Fleet with interface to auxiliary packet data communicators such as TETRA, ASTRO, CDMA 1X, iDEN,.

The Cellocator™ Compact range of integrated tracking, reporting and logging features combine to offer a cost-effective all-in-one fleet management communication and security solution, suitable for all private or commercial applications.



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## About Cellocator™ Compact Olympic

The Cellocator™ Olympic is an innovative integrated fleet-management unit with superior location, tracking, event-driven reporting, logging, and security capabilities. Its uniquely compact size makes it ideal for covert installation to avoid detection and tampering. Utilizing an external modem for an IP communication over almost any communication platform (like, TETRA, ASTRO, CDMA 1X, iDEN,) together with GPS technology ensures inexpensive, yet reliable and fluent communications together with efficient remote vehicle tracking.

The feature-rich Cellocator™ Olympic system offers fleet service providers and their customers' optimum solutions in coverage, lowest cost tracking, easy installation and limitless functionality.

Cellocator™ Olympic offers advanced AVL capabilities, together with excellent reporting and logging capabilities, featuring:

- Exceptionally small size
- Adaptable to any available packet data communication platform (like TETRA, ASTRO, CDMA 1X, iDEN,)
- Integrated GPS technology
- Online event-driven reporting
- Full event data logging
- Data-terminal compatible
- Panic button
- OTA configurable
- OTA upgradeable
- Multiple discrete I/O
- Tow detection
- NMEA data output
- PDA power output
- Driver identification
- Built in Geo-Fence support
- Accident detection
- Unique: Driver behavior analysis

## Features - Communication

**Communication Method:** The units use the existing communication infrastructure (e. g. a TETRA/ASTRO radio), to communicate over UDP/IP

**External modem support** - The unit utilizes a communication port, adapted to an external terminal modem connection. The unit is adaptable to terminal modems working on any packet data communication platform (like TETRA, ASTRO, CDMA 1X, iDEN,).

**GPS sensor** - A 20-channel GPS sensor is integrated with the antenna for improved reception sensitivity, ensuring efficient and accurate vehicle location. The GPS sensor is connected to the unit via a serial port, ensuring improved covert installation.

**OTA (Over-The-Air) Firmware Upgrade** - The unit's firmware can be upgraded over the air if required, as well as over a RS232 port.



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**OTA (Over-The-Air) Programming** - All the unit's options are fully configurable through communication with the control center. For example, operators or users can remotely select the type of events to be logged, change transmission intervals, enable or disable sensors and much more.

**Mobile Data Terminal** - The unit is capable of forwarding data from its serial port to the remote application and vice versa. This allows messaging between the operator and the driver, using a PDA or a data terminal such as the MDT.

**NMEA Data Output:** Standard GPS-NMEA data output for navigation systems without internal GPS. The Compact Olympic unit doubles as a GPS-NMEA source for your navigation system, lowering TCO by making an additional GPS unnecessary.

## Benefits

The Cellocator™ Compact Olympic is an exceptionally low cost, feature-rich, flexible, easily integrated and fully configurable device that provides the following benefits:

- Communication Cost Reduction
- Optimized Resource Utilization
- Cargo and Vehicle Security
- Customer Satisfaction and Competitive Edge
- Reliable communication and vehicle location 24/7
- Exceptionally low power consumption
- Quick and easy installation
- Fully configurable with software systems and external devices



## Specifications

Outputs	2 open collector outputs up to 500 mA 1 regulated 5V power output for PDA charging
Inputs	5 variable inputs – 1 for Ignition, 4 for general purpose,
Communication Methods	UPD/IP over any packet data communication network using external terminal modem. (like TETRA, ASTRO, CDMA 1X, iDEN,)
GPS Technology	SiRFxTrac 20 receiving channels
Other Interfaces	RS232 (9600bps), 1-Wire (Dallas), MDT (Mobile Data Terminal) support
Operating voltage	9-32V
Power Consumption	0.98W in full operation, 0.327W in hibernation
Battery	External 6V rechargeable battery
Dimensions	77.6mm x 106mm x 28.1 5mm
Weight	0.315kg
Temperature Range	- 20°C to +55°C

## Vehicle Security

**Covert installation** - The small size of the unit allows it to be installed deep inside the interior of the vehicle, and thus avoid discovery and tampering.

**Multiple input options** - The Cellocator™ Compact Olympic device has digital inputs to supervise external sensors, such as:

- Distress button
- Door or hood sensors
- Ignition switch sensor
- Collision impact sensor power.



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**Multiple output options:** The unit can operate 2 discrete open- collector outputs of up to 500mA each controlling features such as Blinkers Vehicle alarm systems.

Output functions are pulses and can be remotely activated from central control.

**Tow detection:** If the unit detects that the vehicle is moving while the ignition is off, it will immediately send tow detection alert to control center.

## Specifications

**Advanced Driver Behavior Analysis:** The unit is capable of detecting sudden speed or course changes, configurable separately in four speed ranges. When such an event occurs, the unit can create an event or series of events as frequent as 1 per second.

**Driver Identification:** Dallas keys for driver identification and full driver activity logging in the control center database. For Fleet and Olympic, the unit can be configured to activate a reminder signal for drivers who forget to identify themselves.

**Real-time Tracking:** For continuous tracking of the vehicle, the system transmits constant location and status information to the control center at predefined time intervals, distance intervals, and according to different speeds.

**Real-time Alerts:** In the event that any of the vehicle's security inputs are activated, the unit immediately transmits a real-time alert to the control center. Each alert transmission includes information about detailed location, transmission reason, I/O status and power voltage indication (main and back-up).





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**Status request** - At any given time, the operator can request an immediate status and location report from the unit.

**Online Event Reporting:** When radio coverage is available, the unit can continuously transmit vehicle status events at user-defined intervals. Each transmission includes: transmission reason (event type), vehicle ID, driver ID, time stamp, detailed location information, speed, heading, , accumulated mileage, I/O status, battery voltage and more.

**Event types** - Event types include ignition on/off, over-speed start/end, idle speed, , elapsed driving distance, distress button activation, navigation start/stop, input sensor activation (such as door opened) and more. All event types can be remotely (OTA) or locally configured.

**Idle Transmission:** When the vehicle is idle for extended time periods, the system can be configured to transmit a status message at predefined time intervals for a keep- alive indication.

**Log Memory:** Non-volatile memory of up to 2,256 complete times stamped events, useful in case of loss of communication. Upon resuming of communication; this data will be transmitted immediately.

**Geo-Fence/ Waypoints Support:** 16 onboard programmable Geo-Fence and Waypoints. In case the vehicle violates a designated perimeter or enters a predefined prohibited zone, or if it deviates from a fixed route within a preset timeframe, an immediate alert is triggered. These features offer substantial reduction of communication costs, by allowing a lower resolution of transmissions. Options are OTA configurable.

**Low Current Consumption:** The unit's exceptionally low current consumption extends battery life and significantly extends its operation life span.

**Navigation:** The unit provides GPS location and regulated power output, which can be connected to an in-car navigation device or a PDA. Such devices can also be used for exchanging text messages with central control.

**External Device Option:** External devices such as a terminal, vehicle computer, built-in intelligent alarm system and more; can be connected to the unit via its serial data interface (standard RS232, 9600 BPS). Protocol Transparency: Allows any data received on RS-232 from auxiliary controllers to be transmitted to the control center "as-is".



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For more information about prices and technical knowledge, please contact:

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