

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 GPRS, TETRA, ASTRO, CDMA 1X, iDEN, CDPD) 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 GPRS, TETRA, ASTRO, CDMA 1X, iDEN, CDPD)
- 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 geofence support
- Accident detection
- **Unique:** Driver behavior analysis

The following are just a few of the benefits Cellocator™ Olympic offers:

- Reliable communication and vehicle location 24/7
- Low cost
- Compact size
- Multi-featured
- Exceptionally flexible and fully configurable
- Exceptionally low power consumption
- Quick and easy installation
- Fully integrable with software systems and external devices

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.

Features

Communication

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 GPRS, TETRA, ASTRO, CDMA 1X, iDEN, CDPD).

GPS sensor - A 12-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) 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.

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.



Data terminal and hands-free compatible -

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 - The Compact Olympic unit doubles as a GPS-NMEA source for your navigation system, lowering TCO by making an additional GPS unnecessary. The unit is also equipped by a regulated power output for PDA charging.



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Vehicle Security

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

Multiple input options - The system can monitor up to five discrete digital input devices, including:

- Panic button
- Door or hood sensors
- Tilt sensors
- Ignition switch sensor
- Oil pressure or water temperature sensor
- Collision impact sensor

and two analog inputs, such as the main battery and backup power source status.

Input options are fully configurable and can be enabled remotely OTA (over-the-air) from central control. When any of the configured inputs are triggered, the system immediately enters into emergency mode.

Output options - The unit can operate two discrete open-collector outputs of up to 500mA each controlling, among others:

- Vehicle immobilizer
- Gradual motor arrest
- Siren
- Lights
- Blinkers

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

Tow detection - If the unit detects that the vehicle is moving while ignition is off, it immediately sends a tow detection alert to control center.

Fleet Management

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 a series of events as frequent as 1 per second.

Driver identification - each driver is equipped with an individual programmable Dallas key, enabling driver identification and full driver activity logging in the control center's database. 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 elapsed time or driving distance intervals.

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 detailed location information, transmission reason, I/O status and power voltage indication (main and back-up).

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

Online event reporting - When coverage is available, the unit can continuously transmit vehicle status events at user-defined intervals.

Each transmission includes, among others, transmission reason (event type), vehicle ID, driver ID, time stamp, detailed location information, speed, heading, (direction / route ?) accumulated mileage, I/O status, and battery voltage.

Event types - Event types include ignition on/off, over-speed start/end, idle speed, elapsed time, 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 check.

Log Memory - When coverage is unreliable or absent, the unit's non-volatile memory can store up to 2,256 complete time-stamped events. This data is immediately transmitted once coverage is resumed. Logged events are stored for an unlimited duration, even in case of failure of both primary and back-up power sources.

Geofence / waypoints support - An immediate alert is triggered if the vehicle violates a designated perimeter, enters a predefined prohibited zone, or deviates from a fixed route within a preset timeframe. 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 (24mA in hibernation mode) extends battery life and significantly expands its operation 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, etc. can be connected to the unit via its serial data interface (standard RS232, 9,600 BPS).

Technical 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, 2 analog inputs dedicated for batteries measurement
Communication method	UPD/IP over any packet data communication network using external terminal modem. (like GPRS, TETRA, ASTRO, CDMA 1X, iDEN, CDPD)
GPS technology	SIRFIII 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 28.15mm
Weight	0.315kg
Temperature range	- 20°C to +55°C

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