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Cellocator Division
Pointer Telocation Ltd.

CELLOCATOR™ COMPACT CAN

VEHICLE EVENT LOGGER
AND TRACKING UNITS

The Cellocator™ Compact CAN provides a built-in CAN BUS interface, which enables accessibility to the CAN data of a vehicle for security and fleet management.



Cellocator Compact CAN

The Cellocator™ Compact CAN is a Compact Fleet Product plus full FMS and J1939 support for advanced professional vehicle maintenance and driver working hour's management.

- The Compact CAN is an enhanced vehicle tracking and monitoring system that provides companies with high vehicle supervision needs.
- The Compact CAN offers fleet managers a strong and flexible set of diagnostic information by integration to vehicle's bus.
- The Compact CAN unique user interface allows fast adaptation to various makes of trucks.
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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 CAN

The Cellocator™ Compact CAN 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 GSM/GPRS communication together with GPS technology ensures inexpensive, yet reliable and fluent communications as well as efficient remote vehicle tracking. The built-in CAN bus interface provides a remote monitoring of the CAN data of the vehicle.

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

The Cellocator™ Compact CAN offers advanced AVL capabilities together with excellent reporting and logging capabilities, featuring:

- Exceptionally small size
- Communication channel redundancy: GPRS+SMS or CSD+SMS.
- Integrated GPS technology
- Integrated CAN bus interface
- Online event driven reporting
- Full event data logging
- Data Terminal and Hands-Free compatible
- OTA configurable
- OTA upgradeable
- Gradual motor arrest by remote command
- Multiple discrete I/O
- Tow detection
- NMEA data output
- Driver Identification
- Built in Geo-Fence support
- Accident detection
- Panic button
- Unique driver behavior analysis

Features

Three Communication Methods: The units include a GSM/GPRS modem, allowing communication over TCP/IP or UDP/IP, and CSD; all with auto-switching to SMS, which can also be configured to be the primary mode of communication. In addition, various programming parameters help to reduce communication costs in roaming.

Communication Cost Reduction: Advanced Communication Cost management for regular and roaming scenarios, including preferred and forbidden GSM providers, and different transmission rates as a function of time, speed and distance.

CAN BUS Interface: The CAN bus is an industry-standard interface. The Compact CAN unit can be interfaced to any vehicle equipped with ISO 11898 compliant bus. It sports plug-n-play integration to FMS. The Compact CAN provides triggers raising alert when events occur (engine overheating, worn brakes, etc). The Cellocator™ Compact CAN unique user interface allows fast adaptation to various makes of trucks.

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





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GPS Sensor: A 20-channel SIRFIII GPS sensor provides the best reception sensitivity ensuring fast and accurate vehicle location.

Garmin Integration - The Compact CAN units are integrating with Garmin in-car satellite navigation systems (hereafter, the client) to deliver enhanced driver-side communication capabilities. The integration will allow a central control system to communicate with vehicles via Cellocator and deliver messages to the navigation system's screen connected to it.

Specifications

Outputs	5 open collector outputs up to 500 mA
Inputs	5 variable inputs - 1 for ignition, 3 for general purpose, 2 analog inputs dedicated for batteries measurement 2 optional analog input (instead one of the general purpose inputs) - 0-2.5V, 10mV resolution
Communication Methods	TCP/IP or UDP/IP over GPRS; CSD (v.32 or v.110); SMS
Frequency Bands	European 900/1800, American 850/1900, or Quad-Band
GPS Technology	SiRFIII 20 receiving channels
Can Bus Interface	Implements ISO-11898 standard physical layers Suitable for 12V and 24V systems Operates at speeds of up to 1 Mb/s J1939 compatible, FMS compatible, Garmin integration
Operating Voltage	9-32V
Power Consumption	1 Watt in full operation, 13.7 mWatt in hibernation
Dimensions	77.6mm x 106mm x 28.1 5mm
Weight	0.315kg
Temperature Range	- 20°C to +55°C

Benefits

The Cellocator™ Compact CAN 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

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 CAN device has digital inputs to supervise external sensors, such as:

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

Two dedicated analog inputs for main battery and backup power with indications for low and no power.





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One general purpose analog input to monitor analog sensors such as temperature, pressure, and fuel level. All input options are fully OTA (over-the-air) controlled and configurable to five priority levels, including emergency.

Multiple output options: The unit can operate 5 discrete open- collector outputs of up to 500mA each, controlling:

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

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

Gradual motor arrest: This unique feature allows the operator to send a remote command to gradually decelerate the vehicle, until it comes to a full stop. Thus, when a stolen vehicle is in motion, a safe, gradual stop is performed, rather than an abrupt stop that could cause an accident.

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.

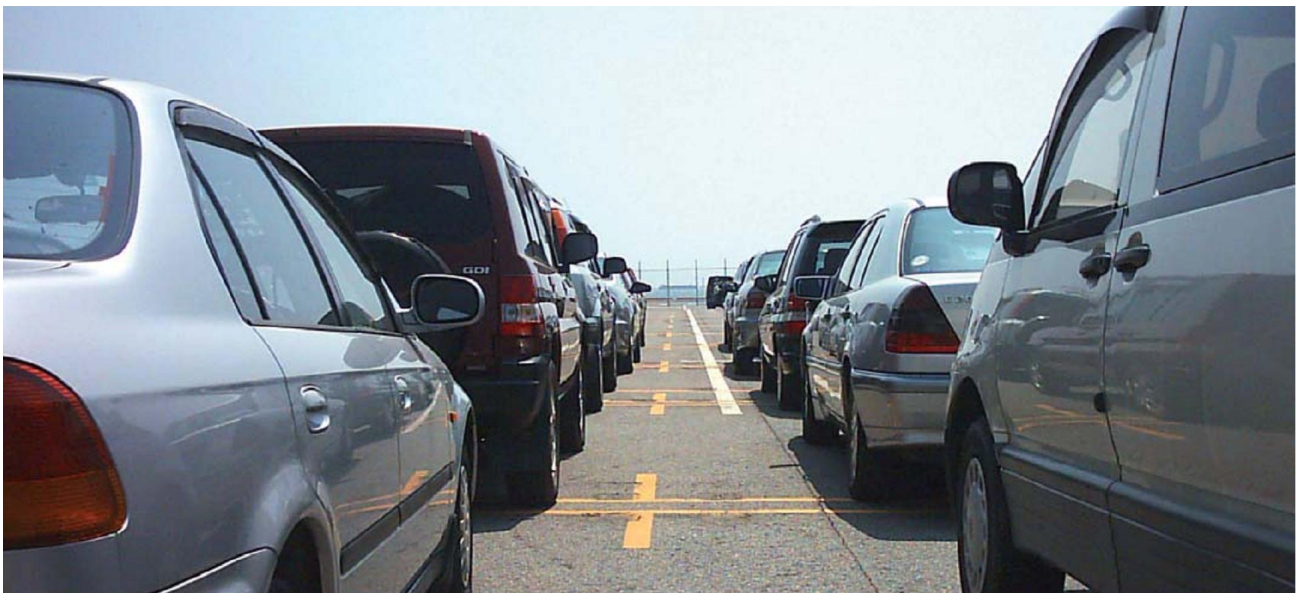
Specifications

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.

CAN Bus Events: The CAN bus integration provides an operator with a wide range of available service data from the vehicle, such as: fuel usage, distance to the next service, RPM, pedals status and much more.

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.





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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).

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

Online Event Reporting: When GPRS 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, direction (for Fleet and CAN), accumulated mileage, I/O status, battery voltage and more.

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 indication.

Log Memory: Non-volatile memory of up to 2,256 complete times stamped events. Useful in case of loss of communication, or for few daily transmissions. 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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