KYLOS Compact

› Portable Tracking Solution
**for Locating Merchandise,
Assets, People and Pets**

Kylos
In Roman mythology, the first ruler of the universe.

STARCOM Systems | Above All

The portable tracking solution for Guarding the things you Value and Protecting those you Love

- GPS technology for pinpointing precise location.

- Real time alerts for notifying of predefined events that have occurred.

- Real time reports for providing a history of stored events.

- Geo-fence technology for perimeter based alerts.

- Built-in light and temperature sensors for monitoring conditions.

- Built-in accelerometer for informing about changes in movement or events of impact.

- Built-in panic button for summoning emergency responses.

- No wiring needed for an easy set up.

Imagine yourself in any of these scenarios:

- Your business involves shipping merchandise all around the globe or even just across town, you would certainly need to keep track of your scattered shipments no matter where you are.

- You have left your bicycle parked up on the side of the street, you would certainly wish to know if it has been moved or stolen.

- You are a parent worried about keeping your child safe or are concerned about your wandering dog, you would certainly want to know if they've gone missing.

- When someone you love is old and lives alone, the risk of falling increases, how helpful would it be if you could be alerted to situations that warrant your immediate attention?

That is why, we at Starcom Systems developed Kylos Compact; the portable tracking system which locates and alerts in real time.

How does Kylos Compact work?

With an integration of cellular communication abilities, GPS technology and innovative built-in sensors, Kylos Compact will display real time location and status information, delivering the utmost in reliable and accurate data for your business and personal tracking needs.

The device itself, which can fit in the palm of your hand, can be attached to assets and worn by people or pets. It can be hidden in almost any item you have chosen to protect, making it totally adaptable to an extensive range of applications and applied to a diverse range of situations.

Conclusion?

Small in size but big in innovation!

Application examples:

Merchandise

- Built-in light sensor will raise an alert if your carton carrying high-end merchandise is being broken into, reducing the risk of your business falling victim to a security breach.
- Built-in temperature sensor will proactively identify and react to a deviation from a preset temperature range, lessening the risk of delivering spoiled goods or medical supplies.

People

- Built-in accelerometer will raise an alert if your elderly parent falls and injures themselves, making it possible and convenient for you to take care of your aging relative from a distance.
- Built-in Panic Button will raise an alert to a pre-set number. For instance in a situation where a child is in distress, pressing the panic button would summon an emergency response from a parent and display location.

Assets

- Built-in accelerometer will raise an alert if your parked bicycle is being moved, thus enabling you to always know if and when your personal valuables are being tampered with.

Pets

- Geo-fencing capability will raise an alert if your pet wanders into or leaves a specific zone area that has been pre-set as safe or unsafe.

By using Kylos Compact

You are in control
of almost all possible events and situations with its built-in sensors, automatic, remote operation, system stability and continuity.

You can save
by quickly locating and recovering your lost or stolen item. Since the unit is small and easily concealed from view, you can keep track confidentially while it remains unnoticed. With its embedded GPS system, you can follow the path of your stolen bicycle or merchandise and easily recover your items.

You can rely
on the system to provide essential information in real time so that you can make and execute effective decisions about your business and personal matters instantaneously. You can also be sure that you will be alerted to any irregularities or breaches, so that you can decide when your immediate attention is necessary.

You enjoy the convenience
of a mobile and web based application that operates in 32 languages and includes detailed maps. As the application is mobile and web based, it can easily be accessed from anywhere, and at any time.

You gain flexibility and mobility
due to its autonomic portable system and built-in battery that does not require an external power supply.

You enjoy a user friendly
application that enables defining customized alerts and reports, their destinations and frequencies, in only a few simple steps.

The tracking device is available in two different models to perfectly meet different usage requirements: **Kylos Compact**; an ideal solution for tracking and tracing your priceless assets and for keeping you informed about the whereabouts of your family members and pets.

Kylos; with a longer battery life, this device is suitable for longer periods of time, making it ideal for monitoring your commercial goods traveling long routes.

General Specification

Battery	Type	Lithium-ion
Kylos Compact Kylos	Power	3.7V, 400 mAh 3.7V, 1800 mAh
Temperature	Operational Storage	-20°C to 60°C -40°C to 85°C
Operating Humidity		Up to 90%
Measurement Kylos Compact Kylos		45 x 33 x 17 mm, 60 grams 75 x 62 x 31 mm, 75 grams
Cellular Communication	GSM/GPRS-default Optional Modems Antenna type Data channels Protocol	Quad Band (850, 900, 1800, 1900) UMTS/HSPA+, CDMA/1xRTT/EV-DO, LTE Built-in (concealed) SMS & TCP/IP Propriety – encrypted
Network	Data	GSM, GPRS and SMS
Messages	SMS GPRS	Encrypted Protocol TCP/IP over PPP
GPS	Systems Receiver and Antenna Protocol Positioning accuracy Navigation Update Rate Navigation method Time to First Fix (TTFF)	GPS, GLONASS Internal NMEA (Binary format) Position: 10m CEP (50%) Velocity: 0.2m/s (50%) 1 second (Default) All-In-View solution 2-Satellite solution, A-GPS Hot Start: 2 sec' Warm Start: 10 sec' Cold Start: 50 sec'
	Antenna	Built in
CPU Capacity	Static RAM Nonvolatile Memory Flash Memory	128 Kb 34 Kb 2048 Kb
Sensors Light Temperature Accelerometer	Resolution Sensitivity Range Accuracy	0.025 LUX 0 - 104,448 LUX (Sunlight) from −20°C to +60°C ±1.0°C 3 Axis, 0.1g resolution
Access Port	Type	TTL (USB cable is available)
Power Consumption	Sleep/Idle GPS only GPRS only GPS and GPRS	0.05 mAh 75 mAh 100 mAh 165 mAh
Battery Life Kylos Compact Kylos	Transmissions Every 10 minutes Every 6 hours Every 24 hours Every 10 minutes Every 6 hours Every 24 hours	Work time 10 hours 13 days 45 days 30 hours 45 days 150 days

Industry Approvals

Key Features

Management

- **Programmable Events:** According to the user's needs and preferences. Fully customizable, the system can trigger email or text message alerts either by a single event (for example: if the merchandise falls, is damaged, or moves in any way), or a combination of events (such as a combination of light and area alert. For example: if the money bags were opened outside the bank's parameter), without the limitation of choosing from a pre-set list of events.

- **Perimeter based alerts:** Geo-fencing alerts, in case the goods are entering/leaving a specified area at a specified time.

- **Values Monitoring:** Monitoring of temperature and light conditions.

- **Automated Tracking:** Based on predefined and configurable intervals or parameters, without the need for the user to actively send an additional command.

- **Panic Button:** Can be activated by the wearer in any emergency situation and will send an alert by SMS/email to a list of pre-set emergency contacts, indicating that immediate attention is needed (Kylos Compact only).

- **Built in Microphone:** The device allows for remote connection to the unit, enabling you to hear what is going on in the surroundings of the wearer or merchandise. This function is beneficial when the panic button has been activated or in any situation where noise surroundings would be important (Kylos Compact only).

Goods Protection

- **Accident and Movement:** Built-in accelerometer triggers a wide range of automated notifications for when the goods are moved or damaged in any way.

Communication

- **Cellular Connectivity:** Support for GSM networks (GPRS or optional 3G), while using both the SMS channel and the data channel. Supported bands are 850/900/1800/1900 MHz. Optional support for CDMA and HSDPA networks.

- **TCP Connectivity:** Support for the GPRS/1x TCP/IP networks by either staying online at all times, or coming online when a transmission is initiated.

- **DNS Support:** Connection to a server by its host name.

- **Backup Server:** Backup host name support in case of main server has gone offline.
- **Encryption:** Protocol encryption to provide maximum security between the unit and the center.
- **Compact Protocol:** Less than 70 bytes per message enables very small bandwidth usage and saves communication costs.

Over-The-Air commands

- **Firmware Upgrade:** Over the air firmware upgrade to apply new features to units already in the field.
- **Tracking:** Option to remotely engage periodic transmissions from the unit in the intervals of 10 seconds up to 5 days.

Miscellaneous

- **Internal Logging:** Whenever a transmission has failed to be sent, the entire message is saved to the memory for later transmission. Up to 15 thousands complete messages, including statuses, can be recorded this way.
- **Waterproof (IP65):** A silicon case that gives protection from water and dust contamination is available (Kylos Compact only).

Location

- **GPS Receiver:** Built-in GPS receiver, allows real-time tracking and on-board location-based analysis.
- **Last Location Saving:** Saving of the unit's last position, in case of lack of GPS coverage.

Starcom Systems

Starcom Systems is a leading global company, specializing in advanced automated real-time systems for remote tracking and management of vehicles, containers, assets and people. All systems are characterized in strength, stability and continuous performance.

Starcom Systems is publically traded on the AIM Market of the London Stock Exchange, conforming to the highest and most strict regulations in the market, proving its stability and reliability.

Starcom's systems provide a complete solution, consisting of innovative equipment and unique software. Thanks to the user-friendliness of the system, it provides useful and effective solutions, based on each user's settings and requirements.

With more than 15 years of experience and expertise, Starcom Systems distributes and sells its products through 110 technology partners and independent operators in more than 53 countries, and its application is localized for 32 languages.

As a global company, Starcom Systems' products include certifications from all the leading standards in the world, including E 24 certification, Safety certification, EMC test certification, Tuv-Rheinland certification and more.

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