

HELIOS HYBRID

>Real-time solutions for
fleet management,
protection against theft and
security systems



STARCOM
Systems

x3
VTs
Solutions Inc.



info@vtssolution.com



www.vtssolution.com/starcom

HELIOS HYBRID

Sophisticated tracking device for remote and isolated area.
Works anywhere, anytime, combining satellite and cellular connectivity.



Construction Mining Security Valuable Cargo Remote Areas

Starcom Systems quality with 24/7 availability.

- Innovative integration of Helios cellular with an Iridium satellite module
- Customized events through Starcom Systems propriety event generator
- Personalized alerts via Text message and E-mail
- Works 24/7. Anywhere, anytime
- Worldwide detailed maps
- Geo-fencing alerts



Starcom's superior technology - built to work better and last longer

STARCOM Systems | Above All

Helios Hybrid - General Specifications:

CPU	Type Memory	NXP ARM Cortex-M3 Static RAM: 128kb ROM: 34kb Flash: 2048kb
Power	Power Voltage Range Consumption	8v-36v (supported in same unit) 3mA in low power mode up to 120mA in working mode can reach up to 300mA if battery is charged
* Backup Battery (optional)	Type Power	Lithium-ion Polymer 3.75V, 950 mAh
Cellular Communication Satellite Modem (external device)	GSM/GPRS - default Optional Modems Antenna type Data channels Protocol Connection	Quad Band (850, 900, 1800, 1900) UMTS/HSPA+, CDMA/1xRTT/EV-DO, LTE Built-in (concealed) SMS & TCP/IP Propriety – encrypted RS232
Location	Type Time to First Fix (TTFF) Positioning Accuracy Antenna type	GPS, GLONASS (optional) 1 sec (hot start) 2.5m CEP (50%) Velocity: 0.2m/s (50%) Built in (concealed)
COMM Port	Type Speed	RS232 115,200bps (default)
I/Os	Digital Inputs Digital Outputs Analog Inputs Pulses Counter CANBUS	Max 8 Max 4 Max 3 Max 1 Included
Accelerometer	Type Purpose	3-Axis, 20 mg accuracy, up to 8g Identify and report events of impact and accident
Alarm System	Immobilizer Disarming Options	External – Gradual Stop Key Pad, Dallas Key, Remote Control, RF Keypad
Dimensions	Size Weight	21H x 60W x 107L (mm) 0.82H x 2.36W x 4.21L (inch) 150 (grams) 5.29 (Oz)
Environmental	Operating Temp Storage Temp Humidity	-20°C (-40°F) to +60°C (140°F) -40°C (-40°F) to +85°C (185°F) Max 90%



> **Real-time tracking of its fleet land**

HELIOS HYBRID

Satellite tracking for remote locations without cellular connection



FLEET MANAGEMENT

- Events Programing,
- Speed Control,
- Control of the KM,
- Curves Detection,
- Engine Running,
- Notices Perimeters,
- Measurement of the Fuel,
- Monitoring Values,
- Driver Identification,
- Automated Tracking,
- Transmission of KM.



PROTECTION OF THE VEHICLE AND DRIVER

- Emergency button,
- Detection of Abrupt Braking,
- Detection of an Accident,
- Auto Lock,
- Lock / Unlock Doors.



COMMUNICATION

- Cellular connectivity
- TCP connectivity
- Data Encryption
- Navigation Support
- Support of third party devices,
- Data Encryption,
- Anti-jammer
- Compact Protocol



LOCATION

- Tracking and tracing in real time,
- GPS Mileage,
- Last storage location,
- Operation of events log in an independent way,
- Events log,
- Backup Server,
- Data in private cloud.



ALARM SYSTEM

- Theft detection system,
- Programming times,
- Wakeup from accelerometer:
- Towing Detection:,
- 4 Disarming Devices:,
- Gradual detention of the vehicle through the pulses sent to the fuel pump



EVENTS PROGRAMMING

- Control of Inputs / Outputs using geofencing programming.
- Programming of variables:
 - Temperature
 - Speed
 - Perimeter
 - Location



AIR COMMANDS

- Assemble / Disassemble,
- Remote On / Off Remote,
- Disconnection of Fuel Pump,
- Remote Opening / Closing of doors,
- Integration with applications of Roadside Assistance,
- Communication of Voice and Data,
- Vehicle Tracking,
- Vehicle Status,
- Parameters Programming.



CONTROL TOWER

- Monitoring of Fleet,
- Monitoring of Compliance,
- Monitoring of Inputs / Outputs,
- Monitoring of Programming Events,
- Recording of Time Delivery,
- Remote Assistance,
- Attention to the Emergency calls,
- Fuel Pump Lock in case of theft,
- Integration with Emergency Services,
- Integration with BI.

Uses

Remote locations without access to the cellular network

monitoring in remote sites without access to the cellular network and it has a high risk of theft.

Remote locations with the risk of theft,

remote sites of difficult access, without access to the cellular network, which are prone to theft or kidnapping.

Roads through deserts and jungles

roads without communication, such as deserts and jungles, that may be of risk to the carrier by an accident or mechanical failure.

Roads between mountains

highways of hard accessibility, that the module of the satellite can prevent risks on track and prevent accidents.

**Global Communications
Operating on any part of the world**



By using Helios products:

You enjoy the easy and convenient use

of the system, due to its all-in-one solution base; its easy and simple installation; its integration with the local surroundings of the car or motorcycle; its flexibility to local needs; its compact size that includes built in antennas; its infinite applications; and its opportunities to broaden its future applications.

You maintain stability

due to the state of the art OTA (over the air) ability to remotely upgrade the unit with new features and change settings within the existing firmware of the unit. Thereby, there is constant communication with the car or motorcycle even in the event of a malfunction.

You save

time and money because of the possibility to define different frequencies of transmission according to the local broadcast or Roaming.

You can take advantage

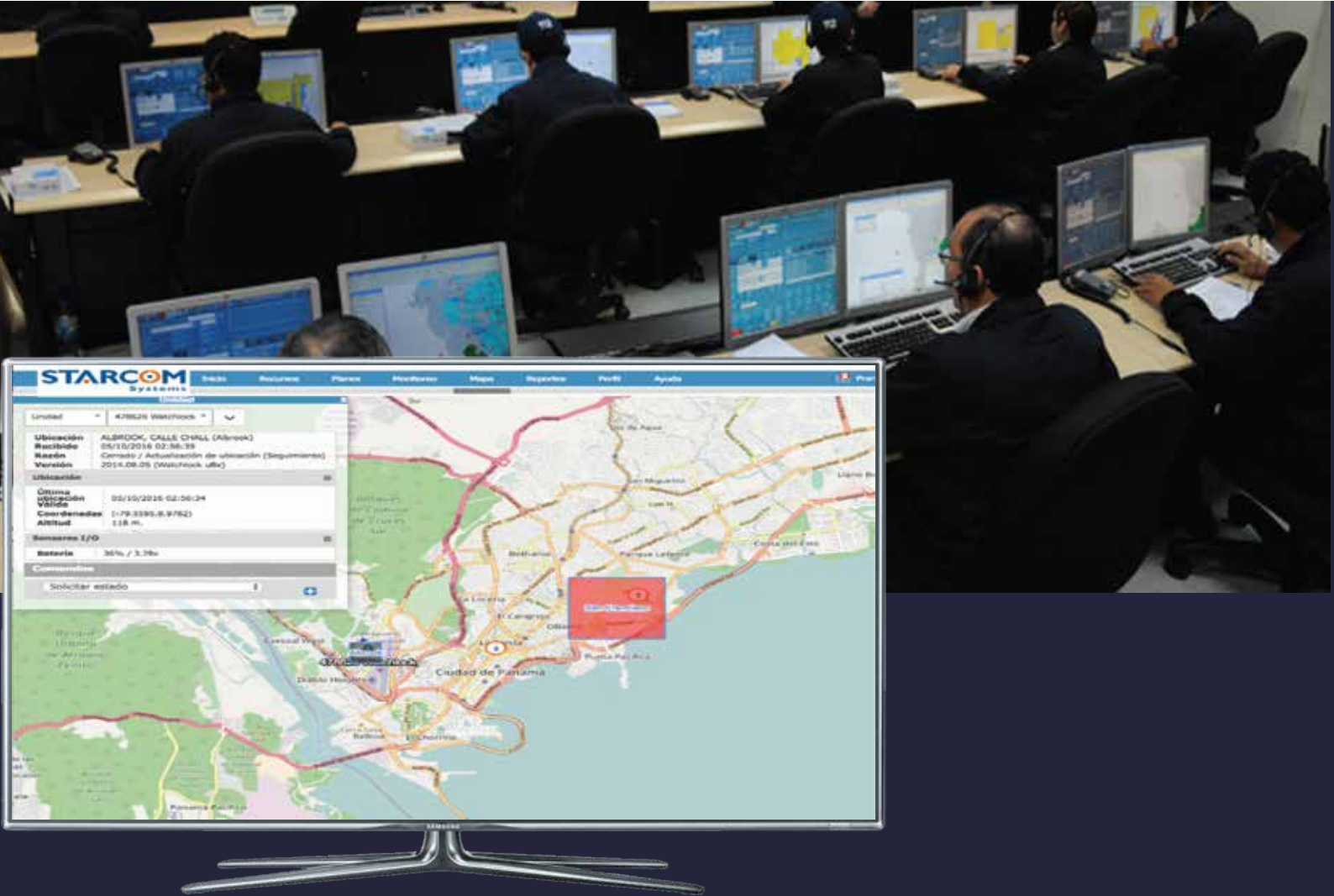
of the high quality of the system which complies with the Automotive industry standards.

You are in control

of every possible circumstance or situation. The open system and its platform allow integration of every situation, both simple and complicated. For example: You can define a request to change the broadcasting frequency automatically once the car enters a specific area and the door is opened.

You are confident

that in the event of an unusual situation the system will automatically be activated. For example: At the time of an accident, the system will automatically unlock the doors and beep every pre-set amount of minutes to identify the location of the car or motorcycle.



Remote Monitoring Center

Alarms, Events, and notifications are handled as incidents from the Monitoring Center in Real Time.

Alarm activations attention to detection of the location of the event.

The incidences reported, and managed by the Center **can be integrated with the delivery order of ERP (SAP, Oracle, Sage, Microsoft).**



Application Architecture Starcom Online



It does not require HW Servers.

Long service life of the device, more than 6 years.

Does not require maintenance, updating of components via cloud.

Easy to install

Mobile application for the reaction of the body of security



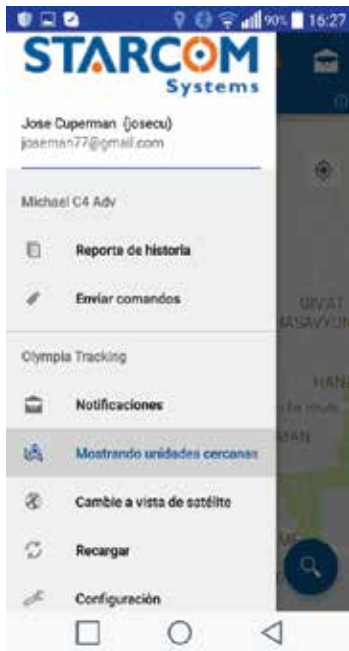
Identification of the unit in Emergency or Accident

Allows the **location of the unit** through the download of apps.

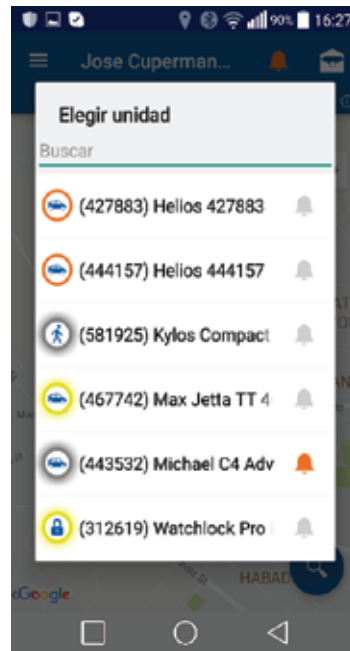
The follow-up to notification, alarm or event linked to the vehicle using Apps.

Access authorization for monitoring through the Apps for security forces.

Olympia Mobile App



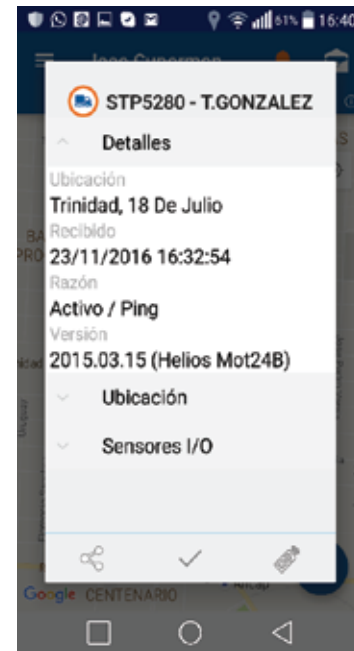
Options



Units



Location



Details



Receives alerts in real time

Visualization of the location of the fixed assets or in motion

Gives all the details of each active device by

Viewing the list of notifications

Displays details and location of each notification

Notification Settings

Historical reports per unit

Compatible with devices with IOS or Android system

HELIOS HYBRID

> **Real-time solutions for fleet management, protection against theft and security systems**



Autonomous units

Quick and easy installation

Events configuration

Audit log

Geofencing

Accelerometer

Information in memory

Roles and Authorizations for users

System based on the web

Multiple languages.

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 operates in 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.

STARCOM
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Products tested in the field
with global certification
(TUV, FCC, E-24, and EMC)

info@vtssolution.com |
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