### Main Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Consumption</strong></td>
<td>Up to 100W</td>
</tr>
<tr>
<td><strong>Sleep/Idle</strong></td>
<td>Up to 60mW</td>
</tr>
<tr>
<td><strong>Battery Pack</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>2 x 100mA</td>
</tr>
<tr>
<td><strong>Light</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Accelerometer</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td><strong>Sensors</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Static RAM</strong></td>
<td>256 KBytes</td>
</tr>
<tr>
<td><strong>CPU Capacity</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Cellular Communication</strong></td>
<td></td>
</tr>
<tr>
<td>4G, 3G, 2G</td>
<td></td>
</tr>
<tr>
<td><strong>GPS and GPRS</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>GPRS only</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>GPS only</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Flash Memory</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Nonvolatile memory</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Antenna type</strong></td>
<td>Built-in</td>
</tr>
<tr>
<td><strong>Positioning Accuracy</strong></td>
<td></td>
</tr>
<tr>
<td>20m CEP (90%)</td>
<td></td>
</tr>
<tr>
<td><strong>Time to First Fix (TTFF)</strong></td>
<td></td>
</tr>
<tr>
<td>50%</td>
<td></td>
</tr>
<tr>
<td><strong>Protocol</strong></td>
<td>SMS &amp; TCP/IP</td>
</tr>
<tr>
<td><strong>Data channels</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Antenna type</strong></td>
<td>Built-in</td>
</tr>
<tr>
<td><strong>Optional Modems</strong></td>
<td>GSM/GPRS - default</td>
</tr>
<tr>
<td><strong>GSM/GPRS - default</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>UMTS/HSPA+, CDMA/1xRTT/EV-DO, LTE</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Quad Band (850, 900, 1800, 1900)</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Backup Server</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Encryption</strong></td>
<td>Protipatory - encrypted</td>
</tr>
<tr>
<td><strong>Communication</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Compact Protocol</strong></td>
<td>100 mAh</td>
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<tr>
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<tr>
<td><strong>Backup Server</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Connection to a server by its host name</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>DNS Support</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Over-The-Air commands</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Internal Logging</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Multi-Channel Transmission</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Geo-fencing alerts</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Perimeter based alerts:</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Door Switch</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Scale</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>100 mAh</td>
</tr>
<tr>
<td><strong>Range</strong></td>
<td>100 mAh</td>
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</tbody>
</table>

### Key Features

#### Management

- **Programmable Events**: Events can be defined in both transient and set up to complex events. For example, you’ll be alerted if the container is broken, opened, or changing its location.
- **Perimeter based alerts**: Geofencing alerts when the container enters/exits a specified geofence area at a specified time.
- **Value Monitoring**: Monitoring of analog inputs to alert when temperatures, humidity or liquid exceed set points.
- **Message Parameters**: Flexible messaging for the container’s needs.
- **Automated Tracking**: Automatic support for customer-calculated features, without sending additional commands.

#### Container Protection

- **Accident and Falling**: Built-in accelerometer serves as both accident and a harsh braking detector.
- **Door monitoring**: Detects and alerts about opening/closing of the container’s door.

#### Communication

- **Cellular Connectivity**: Support for 4G networks (4G-LTE in specified regions), using both the data channel and the voice channel. Supported bands include 900/1800/2100/2600 MHz. Optional support for CDMA and GPRS networks.
- **GPS Connectivity**: Support for the GPS (G-157) network by either staying online at all times, or coming online when a transmission is initiated.

#### Security

- **GPS Support**: Connection to a server by its host name.
- **Backup Server**: Built-in backup server in case of main server going offline.
- **Encryption**: Protocol encryption to provide maximum security between the container and the center.
- **Compact Protocol**: Less than 80 bytes message enables very small bandwidth usage and saves communication costs.

#### Miscellaneous

- **Over-The-Air commands**: Over-the-air firmware upgrade to apply new features to already-installed equipment.
- **Tracking**: Opt-in to remotely set periodic transmissions from the unit in intervals between 10 seconds to 5 days.
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- **Tracking**: Opt-in to remotely set periodic transmissions from the unit in intervals between 10 seconds to 5 days.

#### Encryption

- **Fully certified and operates in 32 languages. As a global company, Starcom Systems' products include certifications from all the leading standards in the world, including E24 certification, Safety certification, IEC62479 certification, and brand certificated and more.**

#### 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 by strength, stability and continuous performance.

Starcom Systems is publicly 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 ease-of-use of the system, it provides useful and effective solutions, based on research and constant development and requirements.

With more than 15 years of experience and expertise, Starcom Systems databases and sells its products through 11 technology partners and independent operators in more than 53 countries, and its applications operate in 22 languages. As a global company, Starcom Systems’ products include certifications from all the leading standards in the world, including E24 certification, Safety certification, IEC62479 certification, and brand certificated and more.

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Examples of real time alerts include: door open/closed, temperature high/low, humidity high/low, a highly sensitive temperature sensor which measures accuracy up to ±0.2°C. The system gathers and processes this information at regular intervals and sends alerts through email or text message based on the settings and scheduling defined by the user and sent as an email or text message.

Containers from Origin to Destination

The Monitoring Solution for ensuring Safe Delivery of your containers:

Key Features of the system:

- **A stand-alone and expandable by replacing modules.**
- **Fast and easy installation** by attaching the unit to the container door frame with a magnet.
- **Cost-effective** by utilizing an already installed 3G/4G cellular network.
- **Reliable** by attaching the unit to the container door frame with a magnet and transmitting the data via the cellular network.
- **Easy to operate** by setting up predefined setting, the system triggers an alert, so that all persons directly involved or interested in the shipment, such as: logistics personnel, supply chain managers, sales, security, insurance, finance, and information at specific locations and times, in addition to receiving alert notifications in real-time.

Applications

Tetis R can be used in a wide range of industries and environments, including:

- **Temperature Sensitive and Special Handling cargo**
- **Perishable Cargo such as chilled fruits and vegetables or frozen meat and fish, all require a reefer service.**
- **Blood, pharmaceutical, and medical equipment, goods for a limited time (sales) or season related items.**
- **Prohibited items**
- **Drug and human trafficking.**
- **Exhibit items**
- **A loss of money.**
- **Inventory and condition, allowing you to stay well informed about your containers' status in real time.**
- **Security**
- **You can be sure that you will be alerted to any possible risk and react quickly and confidently to unforeseen situations.**
- **You can Manage cargo 24/7.**
- **Protect your cargo 24/7.**
- **You Enjoy the User-Friendliness**
- **The monitoring device is available in three different models to perfectly meet different usage requirements:**

Benefits

Maximum Control

Tetis R provides the ability to remotely control your containers from a distance. It enables you to have a true understanding of what is happening with your cargo, and condition, allowing you to stay well informed about your containers' status in real time.

By being able to monitor and manage the storage environment of containers and reefers, risk of loss or damage can be significantly reduced.

The system can also be configured to automatically transmit an audit trail, which provides a complete history of all the actions for a given location, allowing you to track and report if needed.

The audit trail feature allows for tracking the entry and exits of a container and includes a detailed report of all the actions. This data can be used to monitor changes in the environment and ensure that the container is delivered on time.

The system can also be configured to automatically transmit an audit trail, which gives a complete record of the data presented on the map and can be used to track the container's journey.

Gaining a Competitive Edge

A customer retains, on real-time basis, the information and their fingertips and always, they can have a true understanding of what is happening with their cargo, and condition, allowing you to stay well informed about your containers' status in real time.

You can Manage cargo 24/7.

The monitoring device is available in three different models to perfectly meet different usage requirements:

- **Tetis: for dry containers only**
- **Tetis Hybrid: for dry & refrigerated containers**

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- **Tetis: for dry containers only**
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- **Hybrid monitoring solution For dry & refrigerated containers**

Combining satellite and cellular connectivity, Tetis Hybrid is always on the move from the moment they are sealed until they are opened at their final destination. Thus, it always on the move from the moment they are sealed until they are opened at their final destination.

Tetis Hybrid

When the unit is out of coverage, all location and sensor information is stored in the unit's memory and later transmitted once the unit is back in cellular coverage. When the unit is out of coverage, all location and sensor information is stored in the unit's memory and later transmitted once the unit is back in cellular coverage.

A flexible system that can be used in any application, requiring a simple and easy installation process. The system is automatically activated, allowing you to operate simultaneously to collect data from different locations, and information at your fingertips at all times.

A web-based system requiring a simple and easy installation process. The system is automatically activated, allowing you to operate simultaneously to collect data from different locations, and information at your fingertips at all times.

A global footprint developed for multi-countries.

The system can be used in any country and will report data in multi-lingual for the delivery of a container, such as: logistics personnel, supply chain managers, sales, security, insurance, finance, customs, customers, shipping companies, and information at different locations, and information at your fingertips at all times.

The features and functions made available by the Tetis R include the ability to monitor and manage the storage environment of containers and reefers, risk of loss or damage can be significantly reduced.

The system's remote monitoring solution for dry & refrigerated containers from the moment they are sealed until they are opened at their final destination, combining real-time data and information at your fingertips. This solution is always on the move, allowing monitoring, even in areas where radio or cellular communication is not available, providing you with the ability to stay informed about your containers' status at all times.
Examples of real-time alerts include: door open/closed, temperature high/low, humidity high/low, and a highly sensitive temperature sensor which measures accuracy up to ±0.2°C. The system gathers records of historical sensor conditions and alerts to special events can help to explain any incidents that might occur. By being able to monitor and manage the storage environment of containers and reefers, risk of damage and loss can be significantly reduced.

Tetis R can serve as your electronic seal, monitoring and ensuring that your container and cargo arrive at their final destination safe and sound. It can also be used to operate simultaneously to collect data from a wide range of possible events and situations, allowing you to react quickly and confidently to unforeseen situations.

Benefits

**Maximum Control**

- Ability to always follow the status of your cargo: door open/closed, temperature high/low, humidity high/low, light on/off, battery charge level, location status and any combination of these.
- Access to alerts at any desired time interval (e.g. once a day, every other day, once a week).
- To overcome any challenges or obstacles during the container’s journey.
- To monitor all significant events or unusual situations in real-time.
- It enables you to keep track of the entire journey on a map and include a detailed report of all the recordings.
- Data cross-referencing has been made possible, so that one can easily switch between the data presented on the map and report it when needed.
- The audit trail feature allows for tracking the entire journey on a map and includes a detailed report of all the recordings.

**Security**

- A global system that combines satellite and cellular connectivity, making it always on the move.
- It enables you to always follow the status of your cargo: door open/closed, temperature high/low, humidity high/low, light on/off, battery charge level, location status and any combination of these.
- You can be sure that you will be alerted in real-time.
- You can rely on the built-in sensors and alert you to any unexpected situation.

**Applications**

- A web-based system requiring a simple and easy installation process.
- You can define the alerts, upgrade the unit with new features and also keep your container’s journey.
- On-line system.
- Simple steps, you can also define the alerts, upgrade the unit with new features and also keep your container’s journey.
- Remote system.
- Access to alerts at any desired time interval (e.g. once a day, every other day, once a week).
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**Combining satellite and cellular connectivity, Tetis Hybrid is always on the move.**

- tetis-r.com

**Tetis R**

- For dry and refrigerated containers.

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Examples of real-time alerts include: door open/closed, temperature high/low, humidity high/low, a highly sensitive temperature sensor which measures accuracy up to ±0.2°C. The system gathers information like temperature, humidity, and battery level at a set interval (e.g., once a day, every time the unit is moved). Any deviation from the predefined settings will trigger an alert, which can be received as an email or text message. This feature enables all interested parties to react quickly and confidently to unforeseen situations.

Additionally, in a situation where an unexpected or significant event occurs, or one that deviates from a predefined setting, the system will trigger an alert. This helps in preventing any further disruptions. By being able to prevent any further disruptions, you can manage your cargo more effectively.

The Tetis R system serves and provides real-time data to all parties interested in the delivery of a container or reefer – from the moment the container is sealed until it is opened at its final destination. This feature is especially useful for refrigerated cargo and integrates multiple sensors, including those that monitor temperature, humidity, and battery charge. The system also provides records of historical sensor conditions and alerts to special events, which can help to explain any incidents that occurred during transport. The Tetis R system can be operated by rechargeable batteries.

The monitoring device is available in three different models, each with its own unique features and capabilities:

- **Tetis**: Perfect for dry containers and reefer containers with a temperature sensor.
- **Tetis Hybrid**: Suitable for dry and refrigerated containers.
- **Tetis Standard**: Ideal for containers where a lightweight and easy-to-transport sensor is required.

The Tetis R system can be used for a variety of applications, including:

- **Temperature Sensitive and Special Handling Cargo**: These are goods that require monitoring and maintaining in special environmental conditions.
- **Perishable Cargo**: These are shipments where the date of delivery is of particular importance and can include exhibition or presentation items.
- **Prohibited Items**: These are shipments where the date of delivery is of particular importance and can include exhibits.
- **Security Related Cargo**: These are goods that are likely to be stolen owing to their physical attributes; being small, lightweight, or having a high value.
- **Time Sensitive Cargo**: These are goods that require monitoring and maintaining in special environmental conditions.
- **High Value Items**: These are items that have a high chance of being stolen owing to their physical attributes; being small, lightweight, or having a high value.
- **High Impact**: In order to warn about possible events of force or impact brought upon the container, the system can provide information such as the light on/off, battery charge level, location status, and any combination of these.

The Tetis R system also provides an audit trail feature, which records all the stored events including deviations beyond configured ranges, or choose specific predefined setting, the system triggers an alert, so that all persons directly involved or interested in the storage environment of containers and reefer containers are kept informed of the event by the system via notification. A convenient option for users is to manage their container conveniently at every moment. The system can be used for dry containers only.

Tetis R also provides a global system developed for multi-lingual users. The system provides real-time data to all parties interested in the delivery of a container or reefer – from the moment the container is sealed until it is opened at its final destination. You can Rely on the built-in sensors to protect your cargo 24/7.

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By using Tetis R, you can be sure that you will be alerted to any possible deviations in real-time. This system is automatically calibrated, and no additional settings or calibration are needed. You can be sure that you will be alerted to any possible deviations in real-time. This system is automatically calibrated, and no additional settings or calibration are needed.

**Applications**

- **Maximum Control**: You can control all available events and situations with its built-in sensors, system reliability and accuracy. You can rely on the built-in sensors to protect your cargo 24/7.
- **Time Sensitive Cargo**: You can Rely on the built-in sensors to protect your cargo 24/7.
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The Tetis R system provides real-time data to all parties interested in the delivery of a container or reefer – from the moment the container is sealed until it is opened at its final destination. You can Rely on the built-in sensors to protect your cargo 24/7.
Examples of real-time alerts include: door open/closed, temperature high/low, humidity high/low, reaching its final destination. Tetis R has also been especially designed for refrigerated cargo and integrates multiple sensors, including based on the settings and scheduling defined by the user and sent as an email or text message. Tetis R is a sophisticated tracking system, designed for the purpose of monitoring and tracking dry and reefer containers, from the moment the container is sealed and until the container is opened when reaching its final destination. The Monitoring Solution for ensuring Safe Delivery of Containers from Origin to Destination

**Key Features of the system:**

- **A stand-alone and portable by rechargeable batteries.**

- **Fast and easy installation** by attaching the unit to the container door frame with a magnet.

- **Hybrid monitoring solution for dry & refrigerated containers.**

- **Temperature and humidity monitoring.**

- **Accelerometer included.**

- **Web based system requiring a simple and easy installation process.**

**Benefits**

- **Maximum Control** of all the recordings. Data cross-referencing has been made possible, so that one can easily switch between the records obtained at the moment they are sealed until they are opened at their final destination.

- **Temperature Sensitive and Special Handling cargo** such as: logistic personnel, supply chain managers, sales, security, insurance, finance, customers, shipping companies, shipping containers. Shipping companies can use all of these tools, including in all the major seaports, to coordinate their efforts so that their shipment always arrive, or in case of need, to take action immediately such as in case of issues.

- **Applications**

  - Users EHH can be sent as email and/or text message, keeping you up to speed with your containers continuously and its unique ability to remotely track your containers at any time.

**Information available:**

- **web based system** requiring a simple and easy installation process.

- **Hardware and software provided by the unit.**

- **Maximum Control** of all the recordings. Data cross-referencing has been made possible, so that one can easily switch between the records obtained at the moment they are sealed until they are opened at their final destination.

- **Temperature Sensitive and Special Handling cargo** such as: logistic personnel, supply chain managers, sales, security, insurance, finance, customers, shipping companies, shipping containers. Shipping companies can use all of these tools, including in all the major seaports, to coordinate their efforts so that their shipment always arrive, or in case of need, to take action immediately such as in case of issues.

- **Applications**

  - Users EHH can be sent as email and/or text message, keeping you up to speed with your containers continuously and its unique ability to remotely track your containers at any time.

**You can be sure that you will be alerted in case of any problems in real time.**

**You can manage real-time alerts and take action as needed.**

**You maintain Stability** and safety to your containers at any time.

**Applications**

- **Temperature monitoring** is especially designed for refrigerated and non-refrigerated containers. This technology will alert you to any drop in temperature which could cause spoilage or loss of money.

- **Security**

  - You can use your electronic seal, maintaining and ensuring that your container and cargo arrive safely to its destination.

**You can be sure that you will be alerted in case of any problems in real time.**

**You can manage real-time alerts and take action as needed.**

**You maintain Stability** and safety to your containers at any time.
### Key Features

#### Management
- **Programmable Events:** Events can be defined in both trending and set as complex events. For example, you'll be alerted if the container is broken within 40 cm to 300 cm radius from the unit’s position, or if the brake pressure drops below a specified threshold.
- **Door monitoring:** Detects and alerts about opening/closing of the container’s door.
- **Accident and falling:** Built-in accelerometer serves as both accident and a harsh braking detector.
- **Door monitoring:** Detects and alerts about opening/closing of the container’s door.

#### Communication
- **Cellular Connectivity:** Support for GPRS networks (GSM, WCDMA, UMTS/HSPA+), while using the GPRS channel as the data channel. Supported bands include 850/900/1800/1900 MHz. Optional support for CDMA and HSDPA networks.
- **GPS Connectivity:** Support for the GPS/GPS+TDS/GPS+TETIS by either online monitoring or at all times, or during online when a transmission is failed.

#### Main Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Consumption</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Battery Pack</strong></td>
<td>300 mAh</td>
</tr>
<tr>
<td><strong>Nominal Voltage</strong></td>
<td>3.7 V</td>
</tr>
<tr>
<td><strong>Pack (Li-Ion)</strong></td>
<td>2620 mAh</td>
</tr>
<tr>
<td><strong>Shape</strong></td>
<td>154 x 94 x 41 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>400 g</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>Up to 90%</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-10°C to +60°C</td>
</tr>
<tr>
<td><strong>GPS Sensitivity</strong></td>
<td>60 - 65 dBm</td>
</tr>
<tr>
<td><strong>Positioning Accuracy</strong></td>
<td>± 1 m</td>
</tr>
<tr>
<td><strong>Time to First Fix (TTFF)</strong></td>
<td>1 sec</td>
</tr>
<tr>
<td><strong>Sampling Rate</strong></td>
<td>1 time/hour</td>
</tr>
<tr>
<td><strong>Data Channels</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Range</strong></td>
<td>850/900/1800/1900 MHz</td>
</tr>
</tbody>
</table>

#### Remarks
- **ONOS Support:** Connection to a server by its host name.
- **Backup Sensor:** Backup power source in case of main server out of reach.
- **Encryption:** Protocol encryption to provide higher security between the container and the server.
- **Compact Protocol:** Less than 70 bytes per message allows very small bandwidth usage and ensures transmission costs.
- **Over-The-Air Commands:** In case of firmware upgrade to apply new features to already-installed systems.

### 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 by strength, stability and continuity performance.

Starcom Systems is publicly 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 its user-friendliness of the system, it provides useful and effective solutions, based on low cost, ease of use and requirements.

With more than 15 years of experience and expertise, Starcom Systems distributes and sells its products through 11 technology partners and independent operations in more than 53 countries, and its operation in more than 20 languages. As a global company, Starcom Systems products include certifications from all the leading standards in the world, including E 24 certification, Safety certification, UML2 certification, ISM certification and more.

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**Industry Approvals**

**Main Specifications**

<table>
<thead>
<tr>
<th>Access Port</th>
<th>Sleep/Idle</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Key Features**

- **Programmable Events**: Events can be defined to both transmit and set on and off commands. For example, you'll be alerted if the container is broken or if the break-in bypasses the door.

- **Detected based alerts**: The container is sensing/loosing a specified sleep/standby area at a specified time.

- **Value Monitoring**: Monitoring of analog inputs to alert when temperatures, humidity or light exceed specific limits.

- **Message Parameters**: Features various parameters for the container's needs.

- **Automatic Tracking**: Automatic support to monitor technical specifications, without sending additional commands.

**Container Protection**

- **Accident and Falling**: Built-in accelerometer senses both accident and a harsh braking detector.

- **Door Monitoring**: Detects and alerts about opening/closing of the container's door.

**Communication**

- **Cellular Connectivity**: Support for GSM networks (GPRS in specific areas), using both the SMS channel and the data channel. Supported bands: 850/900/1800/1900 MHz. Optimal support for CDMA and HSDPA networks.

- **GPS Connectivity**: Support for the GPS + TETIS [7] network by either staying online at all times, or in specific areas.

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

- **Backup Server**: Back-up feature in case of main server going offline.

- **Exception**: Notification to provide emergency and security custody between the container and the center.

- **Compact Protocol**: Less than 70 bytes 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 already installed devices.

- **Tracking Optics** to remotely set periodic transmissions from the unit in intervals between 10 seconds to 5 days.

**Miscellaneous**

- **Internal Logging**: Whenever a transmission fails to be sent, the white message is saved to the memory for later transmission. 050000 messages including errors can be recorded this way.

- **Fully Certified**: Fully certified and comply with the highest standards of this industry.

- **Connection to a server by its host name**: 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 the needs and requirements.

**Starcom Systems**

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

Starcom Systems is publicly 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.

With more than 15 years of experience and expertise, Starcom Systems distributes and sells its products through 13 technology partners and independent operators in more than 53 countries, and its applications operate in 22 languages. As a global company, Starcom Systems' products include certifications from all the leading standards in the world, including EN 24 certification, Safety certificate, CEN-EC certificate, Toxin-handling certificate and more.

**TETIS**

**Monitoring Solutions for Dry and Refrigerated Containers**

*In Greek mythology, ruler of the seas, Tetis*
Main Specifications

- **Power Consumption**: Sleep/Idle: 50mA; Access Port: 100mA
- **Battery Pack**: Type: Li-Ion; Capacity: 5200 mAh
- **Inputs**: Push-button, Light, Accelerometer, Relative Humidity, Temperature Sensors
- **CPU Capacity**: Static RAM: 256 Kb
- **Cellular Communication**: Measurement: 40 x 25 x 4 cm (15.7 x 9.8 x 1.6 inch)
- **Operating Humidity**: Up to 90%
- **Temperature**: Operational: -45°C to +125°C
- **Inputs**: GPRS only or GPS and GPRS
- **Capacity**: Door Switch, Sensitivity, Resolution, Accuracy, Range

Key Features

- **Programmable Events**: Events can be defined in both system and as an option in sensors. For example, you can define if the container is closed or opened at any time.
- **Perimeter based alarms**: Geolocation alarms when the container is moving/being moved at a specified speed.
- **Value Monitoring**: Monitoring of inputs to alert when temperatures, humidity or light exceed a set threshold.
- **Message Transmission**: Customizable messages tailored for the container’s needs.
- **Automated Tracking**: Automatic support for margin calculation of specified time, without sending additional commands.

Container Protection

- **Accident and fall**: Built-in accelerometer serves as both accident and a fall braking detector.
- **Door monitoring**: Detects and alarams about opening/closing of the container’s door.

Communication

- **Cellular Connectivity**: Support for GSM networks (GPRS is optional) and can be used for SMS, phone calls, and data transmission. Optional support for CSM and HSDPA networks.
- **IP connectivity**: Support for the GPRS/GSM/3G networks by either staying online at all times, or connecting to the internet via a Wi-Fi connection. If low battery, the container will automatically connect to the internet.

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 by strength, stability and continuous performance.

Starcom Systems is publicly 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 vast experience of the company, it provides useful and effective solutions, based on proven technology and requirements.

With more than 15 years of experience and expertise, Starcom Systems distributes and sells its products through 11 technology partners and independent operators in more than 53 countries, and it is available in 12 European languages. As a global company, Starcom Systems’ products include certifications from all the leading standards in the world, including 8,424 certifications, Safety certification, TUV test certificate, TÜV certification and more.

| Above All | www.starcomsystems.com | Tetis Monitoring Solutions for Dry and Refrigerated Containers |

## TETIS

Tetis is Greek mythology, ruler of the seas. 

Tetis is key to understanding our monitoring solutions.