



GOVERNMENT



MARITIME



ENTERPRISE

# CyLock™

Tracking and Securing Shipping Containers



Tracking &  
Monitoring



IoT, M2M &  
Telemetry



Critical  
Communication

THURAYA



## About CyLock™

CyLock™ is portable door lock for shipping containers a GPS tracker and a communication gateway. The product is developed by Norway-based Cypod Solutions, using Thuraya's technologically advanced mobile satellite system, is yet another example of Thuraya's commitment to innovation and excellence.

The product has a rugged industrial IP 67 design with an advanced Bluetooth-controlled tamper-proof lock mechanism specifically designed for enhanced security of shipping containers.

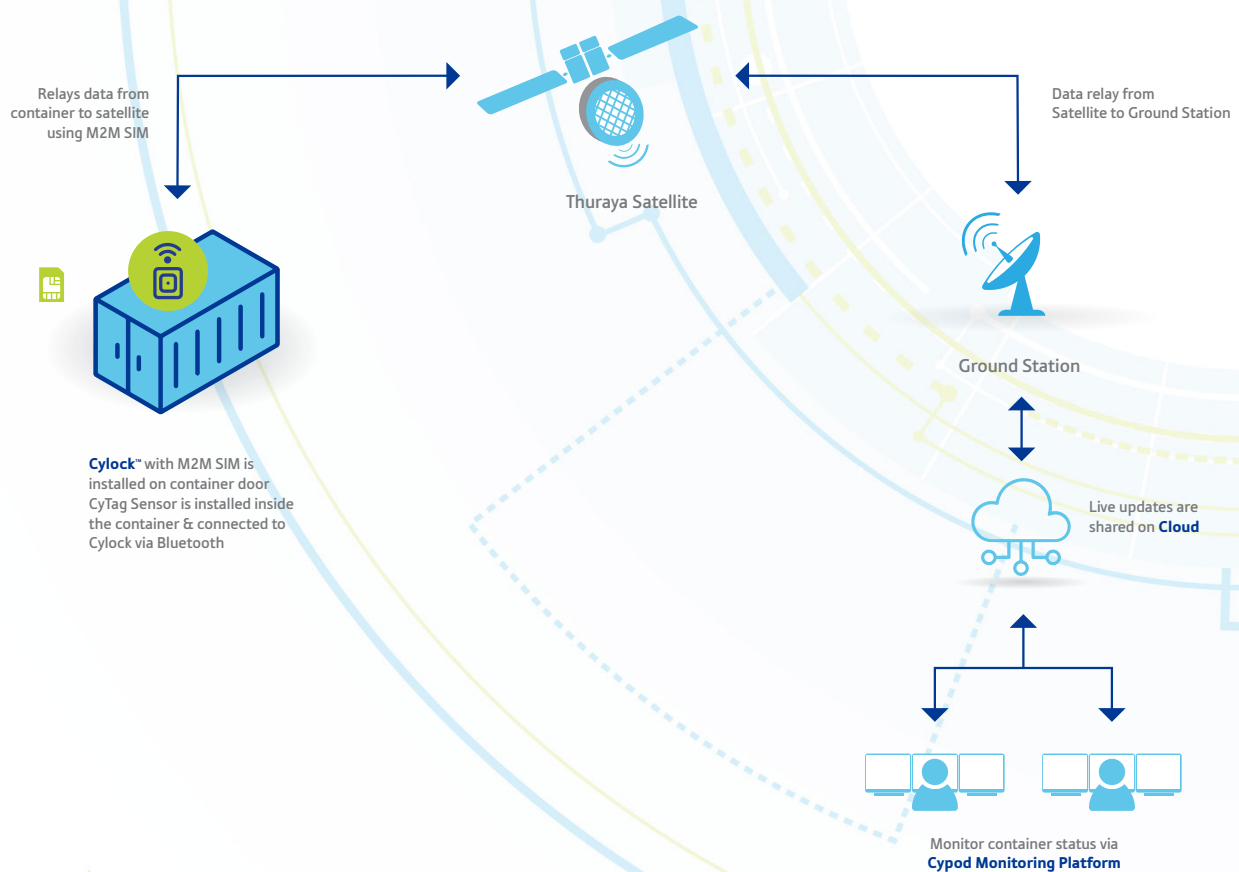
It is expected to revolutionize container tracking and safety across the global logistics industry due to its versatility across land, sea and rail. Whilst traditional shipping provides limited information on the exact shipment location or surrounding conditions of its cargo, CyLock™ will provide additional features and tools which will optimize container freight operations and increase business efficiency.

The CyLock™ supports up to 3-6 months battery life on a single charge and is easily installed. In addition to providing near real time location and tracking of containers and assets, when combined with the CyTag™ environmental sensor, the environmental parameters of the assets can also be monitored.

The CyTag™ is a small robust wireless sensor tag with long battery life providing two-way communication enabling near real-time identification of goods and their location, temperature, humidity, pressure, air quality, and shock/movement detection.

The entire system is managed by the CyDash™ IoT Management Software which is a frontend dashboard providing the means for asset and device management and data visualization. Thousands of assets can be visualized and managed through a single common operational dashboard.

The solution is expected to meet the diverse demands of the global logistics sector and stand out as the ideal choice for businesses which are seeking to optimize their container shipping operations, enhance safety measures, and secure the transportation of sensitive and critical merchandise.



## How does it work?

- CyTag™ monitors conditions inside the container and send data via BLE to CyLock™
- CyLock™ determines which data communication based on signal strength quality economics to send location data over 4G or Thuraya to Cloud
- Multiple alarm levels can be monitored in management platform CyDash™ that allows customers to receive the vital data regarding their goods in transit or in storage and enable them to remotely open and close the CyLock™

## Benefits

CyLock™ has primarily been developed for the global logistics sector and benefits from advanced technology that will provide businesses with a wide range of unique tracking features to enable the following:

- **Efficient Container Tracking:** Near real time tracking capabilities, providing businesses with precise location data for their containers during transit at sea and on land.
- **Container Safety Solutions:** Remote locking and unlocking mechanism, enabling businesses to enhance the level of security over their valuable cargo throughout the logistics process.
- **Transportation of Sensitive Material:** Near Real-time data sensing for the transport of sensitive materials such as medical equipment, so that environmental conditions (such as temperature, humidity, gases, pressure and light) can be adequately monitored throughout the logistics process, ensuring optimal transport conditions and safe delivery of goods.
- **Transportation of Critical Merchandise:** Safe-guarding and security of critical merchandise, ensuring that the cargo is protected throughout its journey, from its origin through to its ultimate destination.

## Use Cases

**Freight Forwarders:** Manage the transportation of goods from one location to another. Tracking shipping containers helps them monitor cargo movements and provide near real-time updates to their clients.

**Logistics Companies:** 3PL (Third-Party Logistics) providers, can benefit from container tracking to enhance their warehousing, transportation, and distribution services.

**Manufacturers:** Manufacturers often ship raw materials or finished products using shipping containers. tracking helps them manage inventory levels and production schedules efficiently.

**Customs and Border Control Agencies:** Responsible for monitoring imports and exports can use container tracking to ensure compliance with regulations and improve security at ports of entry.

**Shipping Companies:** Shipping lines and carriers can use container tracking to optimize vessel routes, manage container inventory, and provide transparency to their customers regarding the status of their shipments.

**Shipping Port Authorities:** Can employ container tracking to optimize port operations, monitor container movements, and ensure the efficient use of terminal facilities.

**Agricultural Exporters:** Businesses exporting agricultural products like fruits and vegetables benefit from container tracking to maintain product quality and ensure timely delivery.

**Chemical and Hazardous Material Suppliers:** Companies dealing with hazardous materials require precise tracking to comply with safety regulations and ensure proper handling and delivery.

## Support

For help and support, please contact:  
Thuraya: [customer.care@thuraya.com](mailto:customer.care@thuraya.com)