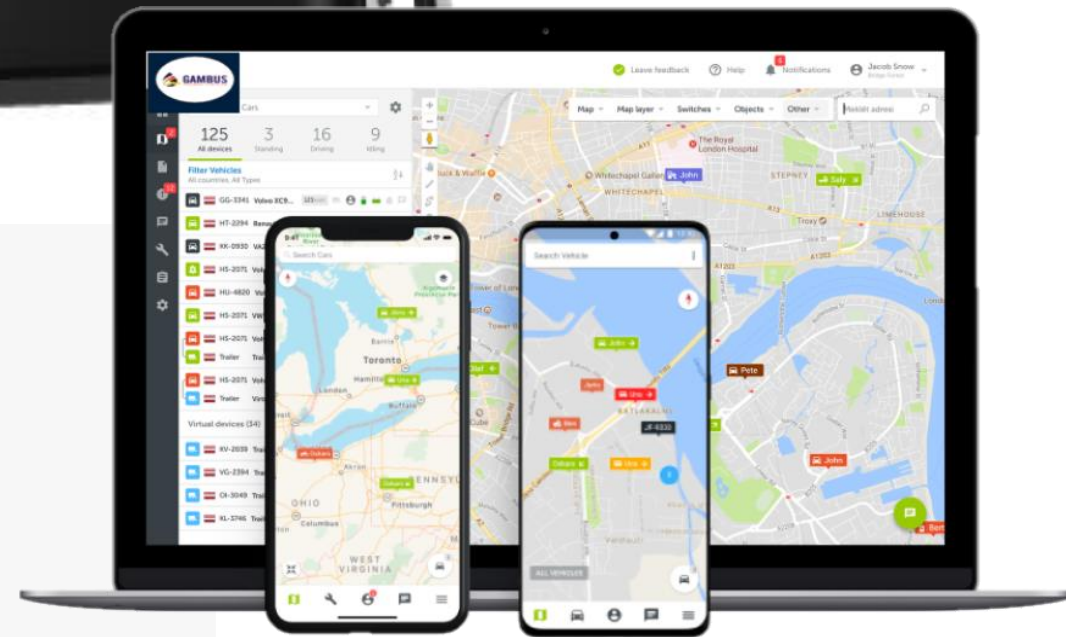




INTRODUCING

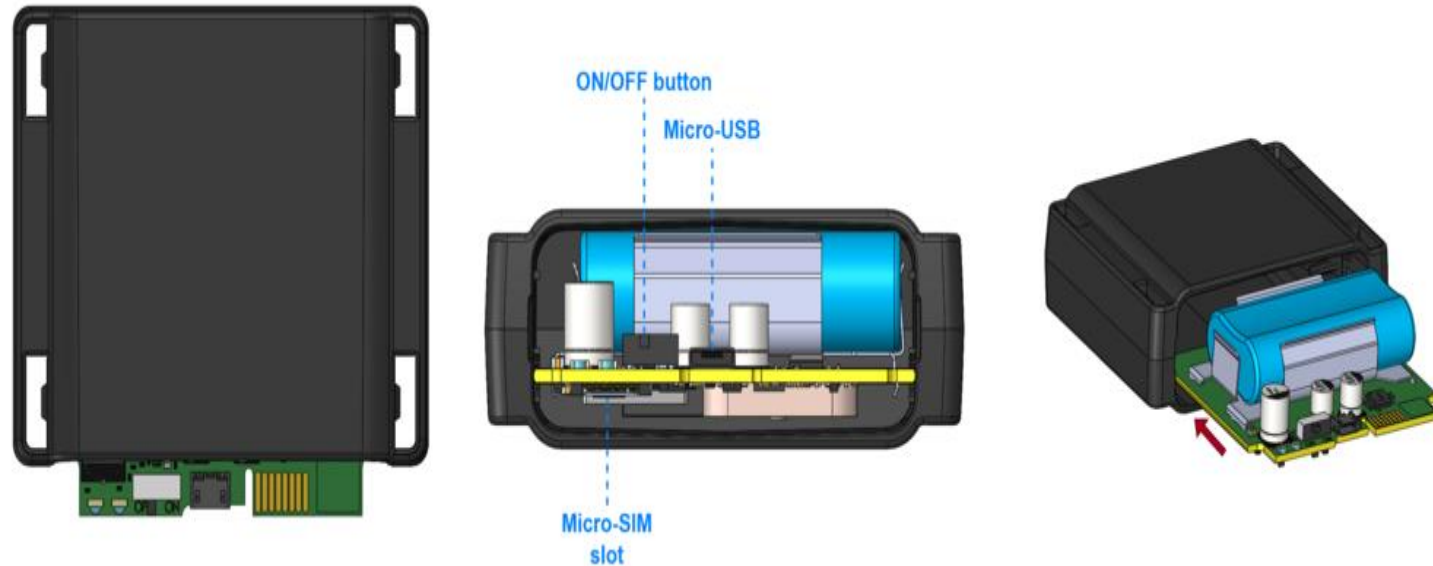
# GAMBUS *R.T.M.S*

Remote Trailer Monitoring Solution



# INTRODUCTION

The Gambus R.T.S.M is a device for asset tracking and additional protection against thefts of valuable goods, as well as it could be used in wide range of applications from tools tracking to container tracking. With the Gambus R.T.S.M, you gain the power to monitor, safeguard, and optimize your assets like never before. Our cutting-edge technology empowers you with real-time insights into your assets' whereabouts and conditions, allowing you to make informed decisions, enhance security, and maximize operational efficiency. Whether you need to track vehicles discreetly, protect valuable cargo, or effortlessly monitor a wide range of assets, the Gambus R.T.S.M is your all-in-one solution to achieve unmatched control and peace of mind.



# DEVICE SPECIFICATIONS

## Features / filters

Built-in memory	128MB
Communication type	GPS, Bluetooth, 2G,
Backup battery	Yes
Built-in sensors	Accelerometer
IP Rating	IP67

## Software features

Scenarios	Enhanced tamper detection, accelerometer wake-up call, GPS and LBS, indoor tracking, Bluetooth Support for sensors (Light, Temperature, Humidity, etc.) / Recovery mode Sending by schedule, Automatic and manual Geo-fence
Sleep modes	GPS sleep, Online deep sleep, Deep sleep, Ultra deep sleep
Data transmission	Primary, duplicate and backup server
Configuration and firmware upgrade	FOTA Web (cloud-based solution) Teltonika Configurator (USB, Bluetooth)
Protocols	UDP/TCP/SMS

## Hardware features

Technology	GSM/GPRS/GNSS/BLUETOOTH 4.0 LE
GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165dBm
GNSS receiver start-up times	Hot < 1s Warm < 25s Cold < 35s
Mobile network	Quad-band GSM 850 / 900 / 1800 / 1900 MHz GPRS Multi-Slot Class 12 (up to 440 kbps) GPRS Mobile Station Class B
Power supply	2 x 2700mAh Li-SOCI2 batteries with 3.6V (19.44 Wh) very low self-discharge
Antenna	GNSS antenna (internal high-gain), GSM antenna (internal high-gain)
Interface	Ultra-low power Bluetooth chipset BlueNRG-232, 2.0 micro-USB, Internal eSIM slot, 128 MB internal flash memory (220'000 records), "Reset" button on PCB for pairing disconnection
Sensors	Accelerometer

# MAIN FEATURES

## 1. REPORT PER DAY – UP TO 3 YEARS\*

Long-lasting battery life and the ability to stay offline on a smart sleeping mode make this solution unique in preventing vehicle theft

## 2. PROTECTION AGAINST WATER AND DUST IN EXTREME WEATHER CONDITIONS

The IP68-rated enclosure ensures reliable operation in any climate and under severe temperature deviations

## 3. EFFICIENT CAR THEFT PREVENTION

Easy to hide anywhere in a vehicle thanks to a compact size, while sleep mode protects against detecting tracker by thieves

## 4. BACKUP TRACKING THE EASY WAY

Quick set-up with Teltonika vehicle tracking devices to use TAT100 as a backup tracker for your transport's maximum safety



## APPLICATIONS/PROBLEMS /SOLUTIONS

### Applications for R.T.M.S

- Position and motion detection of objects
- Leasing of vehicles
- Installation on generators
- Tool tracking
- Installation on shipping containers
- Equipment monitoring for construction machinery



### » Truck tracking

- » Trucks are considered one of the most popular ways to transport valuable resources. Sometimes, the equipment inside the trucks is left unattended for long periods of time. During these periods, it can become easy prey for thieves. Preventing theft from trucks and real-time monitoring is possible with a **special tracker** that can be programmed to send alarms in the event of an unauthorized attempt to break into the truck. **R.T.M.S** can also monitor the status of individual cargo parts.

### » Tracking of high-value loads

- » Heavy machinery, commercial generators, automobiles or simply boxes of high-value goods are vulnerable to theft, while in transit or when left unattended. **The Asset Tracker Easy (R.T.M.S) system** allows you to track assets in real time, giving you up-to-the-minute information on their movement or downtime, as well as instant alerts on attempts at unauthorized cargo theft.

## APPLICATIONS/PROBLEMS /SOLUTIONS



- » The Gambus R.T.S.M is a game-changer across a wide range of industries and asset types:
- » **Discreet Vehicle Monitoring with Asset Tracker**
  - » Keep an eye on your vehicles and their activities.
  - » Prevent unauthorized use or misuse.
  - » Enhance fleet management and security.
- » **Semi-Trailer Tracking Solution**
  - » Safeguard your cargo during transit.
  - » Instant tamper alerts to protect valuable goods.
  - » Simple installation for immediate results.
- » **Effortless Asset Tracking**
  - » Track tools, equipment, and valuable assets effortlessly.
  - » Monitor container locations and conditions in real-time.

Protect high-value items with precision tracking and theft prevention

# Backup Tracker Functionality

## BACKUP SECURITY

### R.T.M.S

LOCATION TRACKING

INTERNAL BATTERY WHICH COULD SEND UP TO 1000 RECORDS

LONG BATTERY LIFE (UP TO 5 YEARS)

TAMPER ALERT

ROBUST, SMALL AND EASY TO INSTALL

CLOUD SERVER

REAL TIME TRACKING SOFTWARE

GNSS

NETWORK

NETWORK

PERIODIC BT COMMUNICATION

TAT100 WAKES UP CONSTANT TRACKING GSM/GPS ON

SIGNAL DETECTOR

MAIN TRACKER REMOVED

NO BT CONNECTION BETWEEN MAIN TRACKER AND R.T.M.S

## Backup Tracking for Uninterrupted Monitoring:

The Gambus R.T.M.S takes asset tracking and security to the next level with its advanced backup tracking feature. Here's how it ensures uninterrupted monitoring and protection:

### 1. Continuous Position Tracking:

The R.T.M.S acts as a reliable backup tracker, ensuring that even if the main tracker goes into alarm mode or experiences signal interruptions, it continues to track the asset's position as per your configuration.

This feature provides peace of mind, knowing that your assets remain under surveillance, and their movements are recorded accurately in real-time

# Backup Tracker Functionality Contd.

## 2. Instant Alarm Event Notification:

In scenarios where the primary tracking device is turned off or experiences a malfunction, the R.T.M.S immediately detects the issue. It sends out an alarm event notification to alert you to the problem, ensuring that you are aware of any disruptions in tracking. Additionally, the data packet sent by the R.T.M.S includes AVL 236 information, which allows you to identify and address the situation promptly.

## 3. Robust Asset Security:

With the Gambus R.T.M.S serving as a backup tracker, asset security is enhanced, and the risk of unauthorized access or asset loss is minimized.

This feature is particularly valuable in situations where asset security is paramount, such as during transit or when monitoring high-value goods.

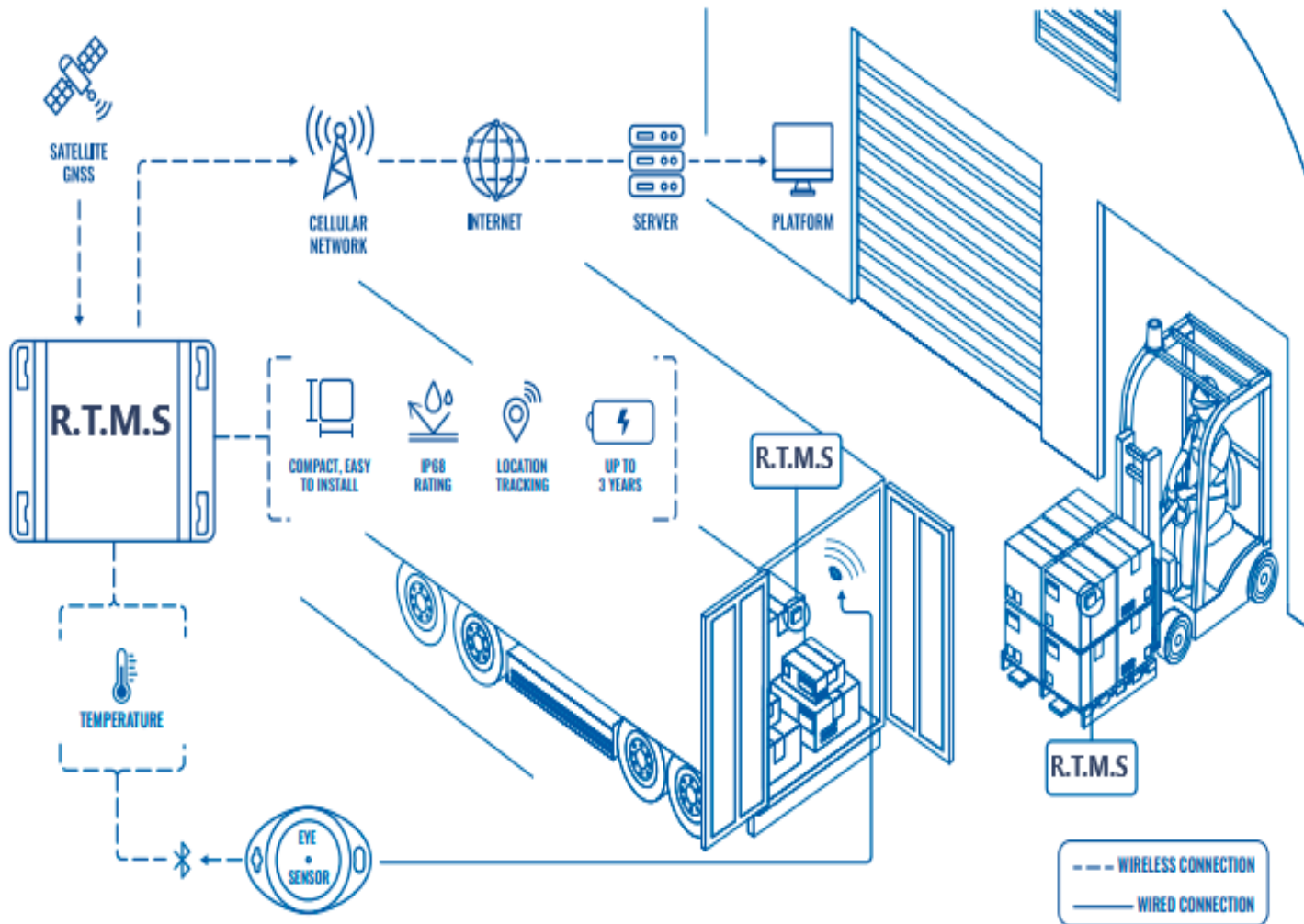
## 4. Data Continuity and Integrity:

By maintaining tracking even in challenging conditions, the R.T.M.S ensures data continuity and the integrity of your tracking records. This feature is essential for accurate reporting, compliance, and historical tracking analysis.

With the Gambus R.T.M.S's backup tracking feature, you can have confidence that your assets are continuously monitored and protected, even when faced with unexpected challenges or interruptions in the primary tracking system. It's a crucial component of our commitment to providing comprehensive and reliable asset tracking and security solutions

# PROBLEMS AND SOLUTION(EFFORTLESS ASSET TRACKING WITH R.T.M.S)

## TOPOLOGY



**Challenge:** In a world where businesses, institutions, and individuals own an array of valuable assets, their protection and efficient management have never been more critical. These assets, ranging from construction equipment to perishable goods, present unique challenges such as time-sensitive delivery and limited lifespans. Recent reports highlight a surge in cargo theft from storage facilities, emphasizing the need for proactive asset protection.

**Solution:** To tackle these challenges effectively, we turn to the R.T.M.S, an autonomous asset tracker offering robust features:

**Compact & Durable Design:** The R.T.M.S boasts a compact, waterproof, and robust IP68-rated casing, built to thrive in harsh environments.

# PROBLEMS AND SOLUTION (EFFORTLESS ASSET TRACKING WITH R.T.M.S) Contd.

**Solution: Extended Battery Life:** With up to 3 years of battery life or 1,000 records on a single charge, it offers sustained tracking without power constraints.

**Bluetooth Connectivity:** Equipped with a low-power Bluetooth chipset for efficient data transmission.

**Location-Based Service (LBS):** Providing precise location data, it enhances asset monitoring accuracy.

**Versatile Mounting Options:** Easy installation with various mounting choices.

**Temperature Monitoring:** Optional EYE Sensor for temperature monitoring inside refrigerated transports, ensuring cargo integrity.

**How it Works:** The R.T.M.S, paired with the wireless Bluetooth EYE Sensor, delivers a comprehensive asset tracking solution. The asset tracker captures precise location data through GNSS, while the wireless sensor measures temperature, humidity, and magnet status if needed. This data is then transmitted to a dedicated software platform at predetermined intervals, enabling remote monitoring of asset condition and location.

## **Benefits:**

**Periodic Asset Monitoring:** The R.T.M.S offers scheduled tracking for up-to-date asset status.

**Extended Battery Life:** Long-lasting battery for reliable tracking.

**Improved Asset Security:** Mitigate theft and unauthorized movement risks.

**Regulatory Compliance:** Ensures compliance with transportation and storage regulations.

**Data-Driven Decisions:** Valuable insights for informed decision-making.

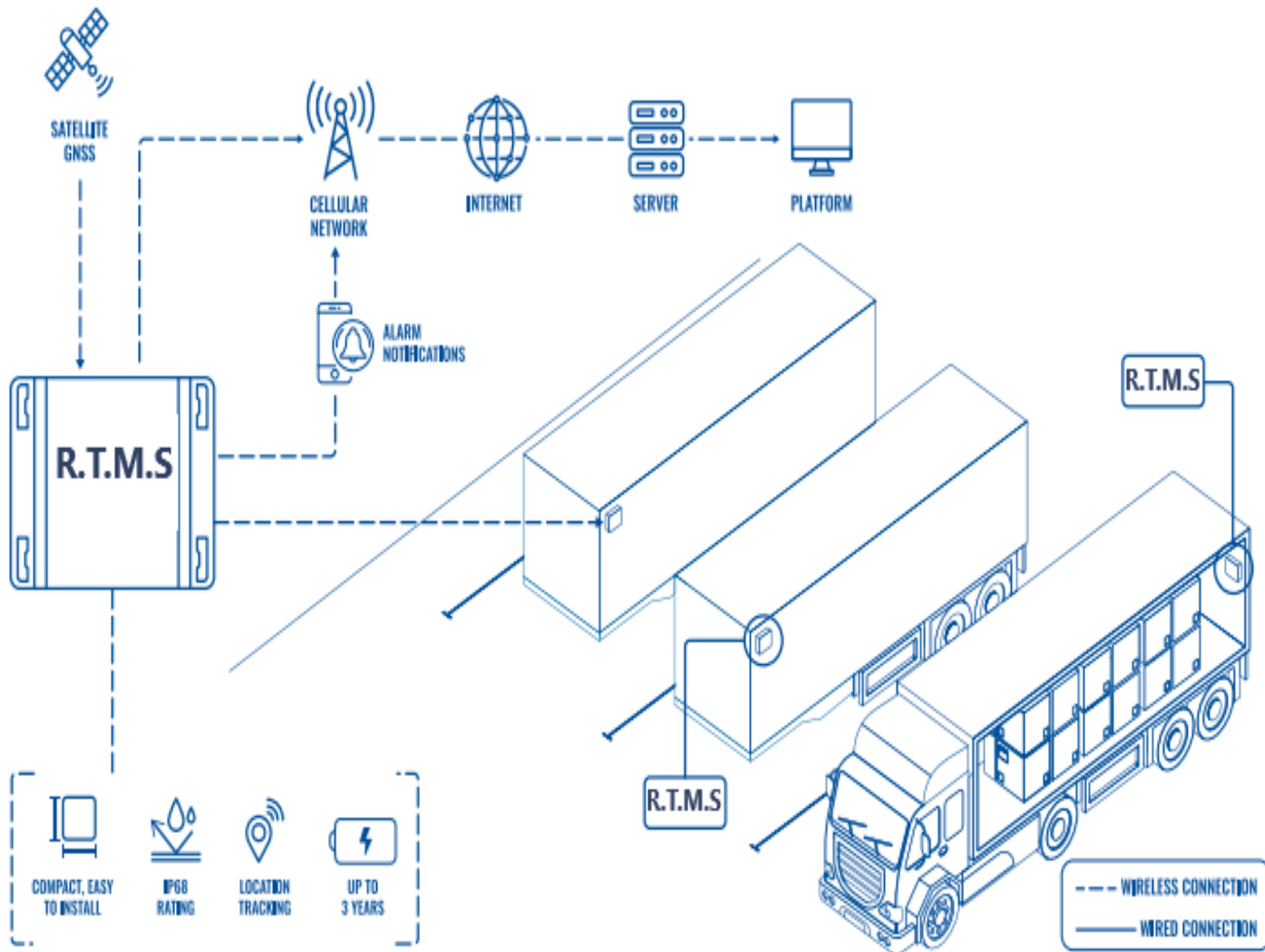
**Scalable Solution:** Adaptable for businesses of all sizes.

**Enhanced Customer Satisfaction:** Accurate delivery and shipment information elevate customer experience.



# PROBLEMS AND SOLUTION(SEMI-TRAILER TRACKING SOLUTION WITH R.T.M.S)

## TOPOLOGY



**Challenge:** Semi-trailers play a pivotal role in transporting diverse cargo, from heavy machinery to hazardous materials. However, the logistics industry faces significant challenges, from safety concerns and fuel price fluctuations to regulatory compliance and the ever-evolving technological landscape. Cargo theft has also surged due to supply chain disruptions, making asset protection more critical than ever.

**Solution:** To address these challenges effectively, we introduce the R.T.M.S autonomous asset tracker. Key features include an IP68-rated robust casing, versatile mounting options, a long-life replaceable internal battery, high-gain GNSS antenna, and tamper detection capabilities. This tracker ensures up to 1,000 records or 3 years of tracking on a single charge.

# PROBLEMS AND SOLUTION(SEMI-TRAILER TRACKING SOLUTION WITH R.T.M.S) Contd.

**How it Works:** The R.T.M.S tracker is installed and configured on each monitored semi-trailer. It detects movement and location, transmitting this data to a central monitoring system. Fleet managers gain real-time insights into trailer location and cargo conditions. IoT sensors offer instant notifications of unauthorized trailer access. For refrigerated trailers, the EYE Sensor ensures temperature compliance.

## **Benefits:**

**Asset Optimization:** Prevent costly idle time by efficiently tracking and utilizing semi-trailers.

**Security:** Ensure trailer security and location awareness, even during loading and unloading.

**Revenue Maximization:** Identify unused trailers and optimize resource allocation for increased revenue.

**Theft Prevention:** Swiftly respond to theft with location alerts, enhancing fleet security.

**Temperature Monitoring:** Comply with cold chain regulations and ensure cargo quality with BLE sensors.



## The Gambus Advantage: (Conclusion)

- **Proven Security:** Trusted by industries worldwide for asset protection.
- - **User-Friendly:** Easy setup and an intuitive user interface.
- - **Cost-Effective:** Maximize tracking efficiency and minimize losses.
- - **24/7 Support:** Our dedicated team is ready to assist you at every step.

No matter your industry or needs, the Gambus R.T.S.M offers the tools you need to thrive.


Don't wait; discover the future of asset tracking and security today


In a dynamic logistics landscape, the R.T.M.S asset tracker empowers fleet managers to enhance efficiency, security, and profitability. It's more than tracking; it's the future of semi-trailer fleet management in action.





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*Thank You*

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