



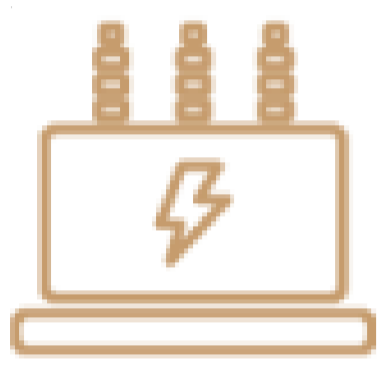
# CyConnect4G™

## Asset Management Solution and Secure Gateway

Remotely monitor and manage environmental statistics of assets with in real time with CyConnect4G™ IoT environmental sensor and remote management solution



### Features



**REDUNDANCY  
POWER CTRL**  
Backup battery in case of power failure



**MOVEMENT DETECTION  
AND GEO FENCING**  
Embedded Gyro for movement detection and zone violation alerts



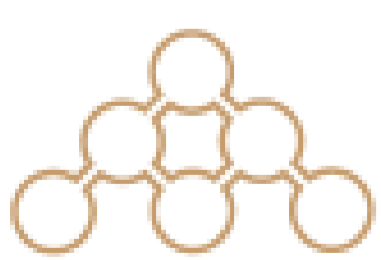
**REALTIME ENVIROMENTAL  
STATISTICS**  
Remotely manage user defined Temperature and Humidity statistics



**GSM  
4G COMMUNICATION**  
Global remote communication



**SECURE  
COMMUNICATION**  
End to End data encryption from sensor to backend server



**MULTIPLE  
COMPARTMENTS**  
Supports up to three sensor probes for multiple compartment monitoring

### Product Description

CyConnect4G™ is a secure asset management solution and gateway enabling real time location of valuable assets and their environmental conditions. Valuable assets such as high value electronics and cold chain perishibles such as frozen foods, vegetables and meats, medicines, vaccines, floraculture and dairy products need to be environmentally controlled when in storage or transit to preserve their quality.

The CyConnect4G™ is a combined sensor and communication gateway for remote asset management including monitoring of critical environmental parameters and location of the asset. Temperature, humidity, light, pressure, movement/shock, and air quality can be accurately measured with preset alarm parameters for immediate notification of alarms outside the set parameters.

Accurate environmental statistics and asset location are encrypted and sent remotely via GSM or 4G to a backend server and can be viewed and managed through the Cypod IoT management software dashboard. Predefined alarms, messaging parameters and geofences may be set by the system administrator and managed via PC or any iOS or Android mobile device.

Location services and movement detection helps to reduce theft and damage caused by mishandling of the asset.

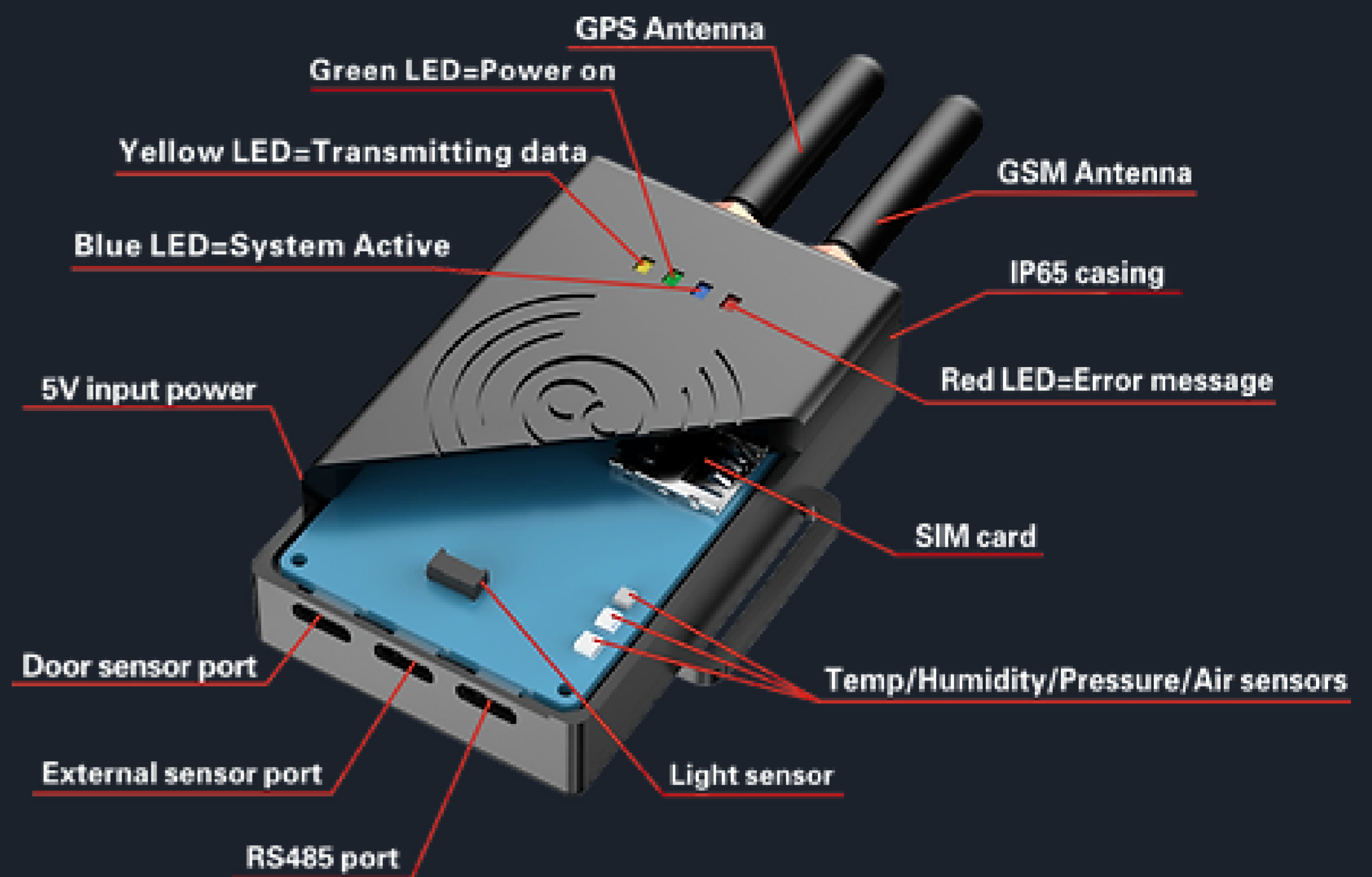
The CyConnect4G™ also has a backup battery in case of power failure to ensure continued operation as well as an RS485 port to support other types of sensors that may be required.

CyConnect4G™ has secure internal memory for OTA firmware flashing and for up to one months logging of data when no connection is available.

CyConnect4G™ can be customized to include specific sensor types as well as an optical door sensor switch or pressure can be used.

The entire CyConnect4G solution can my monitored and thousands of assets managed with the Cypod IOT Management Software.

- Eliminate damage or destroyed perishable assets
- Remote real time monitoring of environmental parameters
- Eliminate theft with real time movement notification
- Preventive Maintenance by monitoring history logs
- Manage thousands of assets on site or remotely
- Customized messaging and alerts via phone, email and sms



 Remote Environmental Monitoring



 Theft Protection



 Asset Administration and Management

## Use Cases

CyConnect4G™ can be used for remote monitoring of a variety of different asset types and use cases. Any asset which requires remote environmental monitoring, asset identification and location such as foods, medicines, beverage products, dairy and confections, sensitive high value electronics, and server rooms for example will benefit from the CyConnect4G™ solution.

## Technical Specification

| Type                            | Specification  |
|---------------------------------|--|
| Dimensions                      | L 75mm(122 w antennas) X W 45mm (54 w mounting ears) X H 20mm  |
| Weight                          | 90 grams   |
| Operational/Storage Temperature | -20 C /+60C  |
| Operational/Storage Humidity    | Humidity 5-95% RH Non Condensing   |
| Input Voltage                   | +5VDC  |
| Power Supply                    | External with 3m SUB Micro USB-B input 90-264VAC 47-63hz Output: 5v /5w  |
| Battery                         | 600 MaH Lithium Ion Polymere (LIP) rechargeable battery  |
| Communication                   | GSM 2G/4G LTE Cat M1 and LTE Cat NB2   |
| Memory                          | FLASH Memory IC 64Mbit   |
| <b>Sensor Types</b>             |  |
| Temperature                     | -40 to 85°C ±0.5°C accuracy  |
| Humidity                        | 0-100% ±3% Relative  |
| Pressure                        | 300-1100 hPa   |
| Air Quality                     | Ethane, Isoprene, 2-Methyl-1, 3 Butadiene, Ethanol, Acetone, Carbon Monoxide   |
| Light                           | Ambient: 16-bit dynamic range for ambient light detection from 0 lx to about 167 klx with resolution down to 0.005 lx/ct |
| Accelometer                     | Acceleration range: ±2g/±4g/±8g/±16g   |
| Door                            | Optical I2C interface  |
| Positioning                     | 4G triangulation and GPS   |
| Security                        | AES-128: Encrypt/Decrypt   |

