



CyTrack™ - G

Secure Cargo and Asset Monitoring and Tracking Solution

Robust portable IoT Tracker



Features



REAL-TIME LOCATION Monitoring
Know the accurate near real-time location of your Cargo/ assets anywhere in the world



LONG LIFE REPLACEABLE BATTERY
Up to 3 years of continuous operation



CONFIGURABLE ALARM PARAMETERS
Set critical alarm parameters and notifications for service dispatch, theft,



ROBUST CASING FOR ENHANCED PROTECTION
IP-68 RATE Designed to withstand dust, moisture, and tough weather conditions



MULTIPLE CONNECTIVITY OPTIONS
GSM/2G / 4G LTE-M/ Nb-IoT,WiFi, BLE5.0, GPS



MONITOR ASSET ENVIRONMENTAL CONDITIONS IN REAL-TIME
Temperature, humidity, shock, light, pressure, air quality, and others within the container or storage unit with CyTag™ asset tag

Product Description

The IoT CyTrack-G is a versatile solution designed for seamless monitoring and management of assets and cargo in both indoor and outdoor environments. Easily attachable to cargo and assets, it ensures continuous monitoring during offloading, storage in warehouses, and outdoor transportation. The device employs GPS for precise outdoor tracking and Bluetooth Low Energy (BLE) for accurate indoor positioning when connected to Gateways.

Ensuring reliable communication, the CyTrack-G utilizes GSM/2G and 4G LTE Cat M1/Nb-IoT, Wi-Fi to transmit real-time cargo positioning information to the Backend server. In the absence of network connectivity, the device logs data, pushing it to the server upon reconnection. Its IP68-rated weatherproof casing ensures resilience against dust, moisture, and challenging terrains, allowing the tracker to operate flawlessly in diverse conditions.

With a powerful replaceable battery, the CyTrack-G provides up to 3 years of continuous operation.

In addition to providing real-time location and tracking of containers and assets, when combined with the Cypod CyTag™ environmental sensor, the environmental parameters of the assets can also be monitored.

The entire system is managed by the 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. An API is available for the integration of sensor and location data directly into an ERP or logistics system.


The CyTrack-G goes beyond location monitoring, providing real-time alarms and notifications for preset parameters, such as entering or exiting predefined geofences. In summary, the IoT CyTrack-G offers a compact and comprehensive solution, combining advanced technology with robust design for unparalleled cargo monitoring and management capabilities.

- Real-Time Location monitoring of Cargo and Assets
- Robust IP68 rated casing withstands dust and moisture
- Up to 3 years battery life
- Real-Time alarms and Notifications
- GSM/2G/ 4G LTE-M/ Nb-IoT/Wi-Fi/ Bluetooth (BLE), GPS Connectivity



 Monitor Containers and Assets inside, worldwide



 Fleet Monitoring and Management, Tracking its location and status



 Monitor and Track Construction Equipment

Use Cases

CyTracker™-G is used for various use cases including cargo and assets monitoring and management to provide real-time information about cargo/ asset status, location for security and quick service dispatch as well as inventory management and monitoring purposes.

Technical Specifications

| Type | Specification |
|------------------------------|---|
| Dimensions | 138mm × 72mm × 22mm |
| Weight | 192 gm |
| Operational Temperature | -20°C ~ +70°C |
| Operational/Storage Humidity | Humidity 5-95% RH Non-Condensing |
| Power Supply | 3.6V non-rechargeable |
| Battery | 7800 mAh (Replaceable Lithium thionyl chloride batteries) |
| Standby consumption flow | <=70uA |
| Standby time | About 7 years |
| Standby working hours | Report once daily for 3 years |
| USB interface | × 1,USB Type C |
| (U)SIM interface | Nano SIM card |
| Cellular antenna | Internal |
| GNSS antenna | Internal |
| Communication | GSM 2G/4G LTE Cat M1 and LTE Cat NB2./ Wi-Fi 2.4G |
| Bluetooth | BLE 5.0 |
| Data Transmission Rate | |
| LTE (Cat M1) | Max. 588 (DL) Max. 1119 (UL) |
| NB-IoT (Cat NB2) | Max. 127 (DL) Max. 158.5 (UL) |
| NB-IoT (Cat NB1) | Max. 32 (DL) Max. 70 (UL) |

| | |
|------------------------------|---|
| GSM | EDGE: Max. 296 (DL) Max. 236.8 (UL) GPRS: Max. 107 (DL) Max. 85.6 (UL) |
| Transmit protocol | TCP, MQTT(S), HTTP(S) |
| Supported frequencies | <ul style="list-style-type: none"> LTE-FDD, Cat M1: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD, Cat NB2: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 |
| Software upgrade | GSM: 850/900/1800/1900 MHz OTA / USB port |
| Sensors | |
| Light | Measuring range: 1~ 1000 Levels |
| Accelerometer | Acceleration range: ±2g/±4g/±8g/±16g |
| GNSS Features | |
| Horizontal Position Accuracy | <2.5m CEP |
| Reacquisition Time | <=1s |
| Sensitivity | Cold start: -130 dbm |
| Security | AES or RSA or through TLS <= 1.2 |
| Housing Material | ABS |
| Regulatory Certification | IP68, CE Certified |
| Installation Way | Magnetic attached, screw mounted, Double-sided tape |

