# TG9

## IoT tracking device

TG9 is a 3G/2G tracking device for long-term tracking and monitoring of assets and equipment globally. It is built on advanced and intelligent technology in a smart design with features including long battery life, easy installation, robust enclosure, and sensors.

3G/2G · Position · Triangulation

Utilization · Temperature · Humidity

Shock · Tilt · Light

Battery · Radio Beacon · Flight mode

TG9 is a unique product with typical 7 years battery lifetime based on 1 position/day. The robust casing is suited for all industrial environments and all-weather conditions with an operating temperature range from -30°C to +85°C.

TG9 provides global connectivity of any asset, both powered and non-powered equipment and entire fleets. It is primarily designed for heavy industries like transport and logistics, construction, wind power, rental, and theft protection and recovery.

TG9 transmits data to a cloud-based management software that provides complete visibility and predictive analytics. It gives insights on location, performance, and status of assets and equipment.

TG9 uses a penta-band 3G/2G module to send position reports to a server. Positions are acquired by GPS and via mobile network triangulation if GPS is not possible. Reports are generated at fixed intervals.

Build-in sensors can trig other reports: Temperature, Light, 3-axis accelerometer for accurate Motion, Shock, Tilt, and Utilization. Available external wireless sensors: RHT and RFID tags.

A log will store all data in case of no coverage and forward once coverage is available again.

A flight mode feature suppresses any radio transmission during the flight to ensure safe conditions.

A built-in radio beacon can be activated as GPS back-up for close-range location.

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## TG9 Specifications

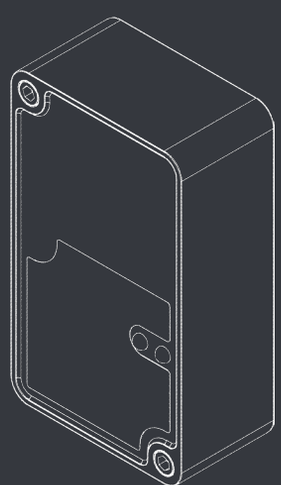
| | |
|---|---|
| **Battery lifetime** | Typical 6000 reports based on 1 report/day * |
| **Sensors** | Position, Motion, Tilt, Temperature, Light, Utilization, 3-axis Shock (up to 8 g) |
| **LOG** | Store-and-forward log up to 100 reports, all data incl. position and sensor data |
| **Network technology** | 3G/2G, penta-band (850/900/1800/1900/2100 MHz) |
| **Antenna, GPS** | Internal |
| **Antenna, 3G/2G** | Internal |
| **Antenna, radio** | Internal |
| **Radio beacon** | 434 MHz |
| **SIM** | Embedded, subscription required |
| **Server communication** | GPRS/UMTS/HSPA with SMS backup |
| **Server protocols** | API available upon request |
| **Configuration** | Via server |
| **Temperature, operating** | -30°C to +85°C |
| **Temperature, storage** | -40°C to +85°C |
| **Housing** | PA6 (nylon) potted with epoxy |
| **IP rating** | IP69k |
| **Dimensions** | 112 x 68 x 39 mm |
| **Weight** | 405 g |
| **Battery package** | 13 Ah, (Primary lithium, encapsulated) |
| **Lithium content** | 3,8 gram |
| **ADR** | UN3091 |
| **US content** | 0% |
| **ECCN** | EAR99 |
| **HS (Taric export) code** | 8526912020 |

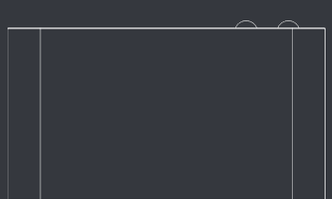
## Typical number of reports

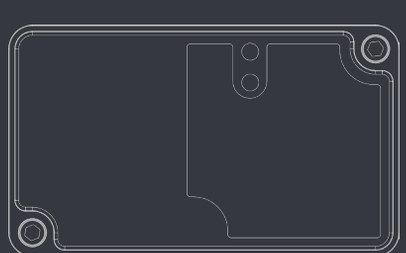
| Network | 3G | 3G/2G ** | 2G |
|---|---|---|---|
| **1 report/day** | 6000 | 5500 | 5000 |
| **4 report/day** | 9000 | 8000 | 7000 |
| **24 report/day** | 10000 | 9000 | 8000 |

Without GPS add 10% to above.

*) Depending on signal and temperature conditions
**) 50% 3G and 50% 2G







Version 4.3 - Subject to change without notice.
This data sheet references to firmware 3.05 or newer.