TG7

IoT tracking device

TG7 is a 3G/GSM tracking device for long-term tracking and monitoring of assets and equipment all over the world. It is built on advanced and intelligent technology in a smart design with features including long battery life, easy installation, robust enclosure, and sensors.

2G/3G Coverage

Position

Triangulation

Utilization

Temperature

Humidity

Shock

Tilt

Light

Battery life

Radio Beacon

TG7 is a unique product with typically 5 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 -20°C to +85°C.

TG7 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 security and recovery.

TG7 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.

TG7 uses a penta-band 3G/GSM module to send position reports to a server via GPRS. Positions are acquired by GPS and via mobile network triangulation if GPS is not possible. Reports are generated at fixed intervals - e.g., twice per day.

Build-in sensors can trig other reports: Temperature, Light, 3-axis accelerometer for accurate Motion, Shock, Tilt, and Utilization.

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

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

Specifications

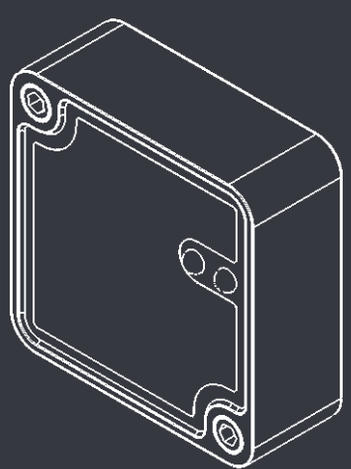
Battery life time	Typically 3000 reports based on 1 report/day *
Battery type	Primary lithium, 7,8 Ah, built-in, encapsulated
Temperature, operating	-20°C to +85°C
Temperature, storage	-40°C to +85°C
Network technology	3G/GSM, penta-band (850/900/1800/1900/2100 MHz)
Radio beacon	434 MHz, up to 100 mW
Sensors	Position, Motion, Tilt, Temperature, Light, Utilization, 3-axis Shock
Antenna, GPS	Internal
Antenna, 3G/GSM	Internal
Antenna, radio	Internal
LOG	Store-and-forward, all data incl. position and sensor data
Dimensions	68 x 68 x 25 mm
Weight	170 g
IP rating	IP69k
SIM	Embedded, subscription required
Server communication	GPRS/UMTS/HSPA with SMS backup
Server protocols	API available upon request
Configuration	Via server
Housing	PA6 (nylon) potted with epoxy
ECCN	EAR99
HS (Taric export) code	8526 91 20
US content	0%
ADR	UN3091
Lithium content	2 gram

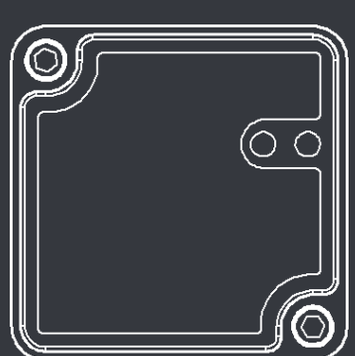
Typical number of reports

Network usted	2G	2G/3G **	3G
1 report/day	2500	2800	3000
4 report/day	3500	4200	5000
24 report/day	4000	5000	6000

Without GPS add 10% to above.

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





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