TG7

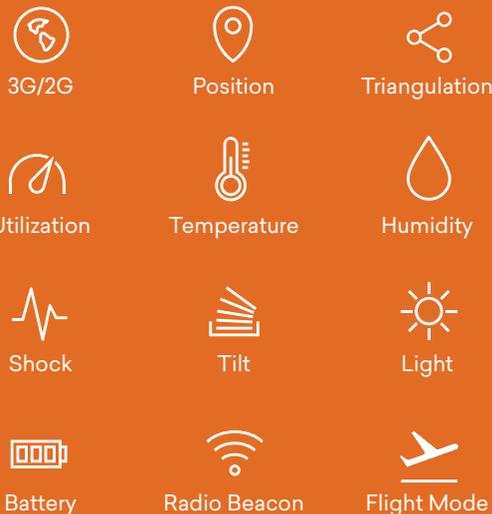## IoT tracking device

TG7 is a small 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

TG7 is a small and unique product with typical 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 -30°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 protection 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/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 - 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 flight mode feature suppresses any radio transmission during the flight to ensure safe conditions.

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

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TG7
Specifications

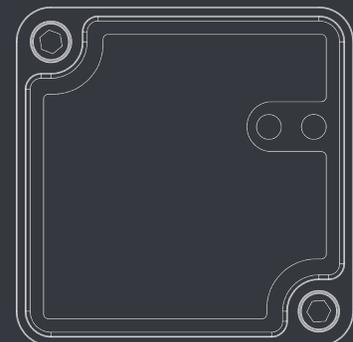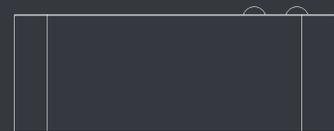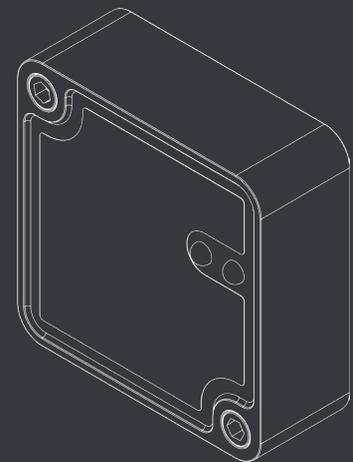|	
Battery lifetime	Typical 3000 reports based on 1 report/day *
Sensors	Position, Motion, Tilt, Temperature, Light, Utilization, 3-axis Shock (up to 8 g)
LOG	Store-and-forward log up to 100 reports, all data incl. position and sensor data
Network technology	3G/2G, penta-band (850/900/1800/1900/2100 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	68 x 68 x 25 mm
Weight	170 g
Battery package	7,8 Ah (3 x primary lithium, encapsulated)
Lithium content	2,07 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	3000	2800	2500
4 report/day	5000	4200	3500
24 report/day	6000	5000	4000

Without GPS add 10% to above.

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