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 with advanced and intelligent sensor technology in a smart design with features including long battery life, easy installation and robust casing.

3G/2G
Battery
IP69k casing
Position
Radio beacon
Motion
Shock
Tilt
Light
Utilization
External tags
Temperature

TG7 is a small IoT tracking device and data logger that offers **asset monitoring and data tracking** of any asset; from non-powered equipment to entire fleets.

Its **robust casing** is suited for all industrial environments and all-weather conditions with an operating temperature range from -30°C to +85°C. Battery lifetime is typical 5 years based on 1 transmission/day.

The device uses a penta-band **3G/2G module** to send transmissions to a server. Transmissions can be set at user-fixed intervals and if specified events occur.

Devices out of data coverage will **log data input** until coverage is available again.

A built-in **3-axis accelerometer** offers high-precision data on motion, shock and orientation, while other sensors track light and temperature.

Available **external wireless RHT and RFID-tags** offer humidity sensor and additional temperature data.

Position data is acquired by **GPS** or via mobile network triangulation if GPS is not available. A built-in radio beacon can be activated for close-range location.

Data can be viewed on a cloud-based data portal that provides **complete visibility and data analytics**. It provides insights on location, performance, and status of assets and equipment. Data is available on maps, in graphs and in reports. API options are available.

Flight mode feature is available to suppress all radio transmissions to ensure safe conditions during flight.

Devices are in operation all over the world in industries like construction, theft recovery, wind, and logistics.

Specifications

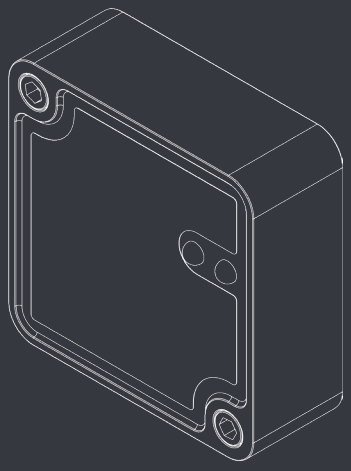
	Type: T7.300
Battery lifetime	Typical 3000 transmissions based on 1 transmission/day *
Sensors	Position, Motion, Tilt, Light, Utilization, 3-axis Shock (up to 8 g)
Data log	Store-and-forward log, default 200 entries of all data incl. position and sensor data
Antenna, GPS	Internal
Antenna, 3G/2G	Internal
Antenna, radio	Internal
Radio beacon	UHF
Network technology	3G/2G, penta-band (850/900/1800/1900/2100 MHz)
SIM	Embedded, subscription required
Server communication	GPRS/UMTS/HSPA with SMS backup
Server protocols	API available upon request
Configuration	Via server
External tag connectivity	Yes
Housing	PA6 (nylon) potted with epoxy
IP rating	IP69k
Maximum allowed continuous acceleration	8 g
Dimensions	68 x 68 x 25 mm
Weight	170 gram
Battery package	29 Wh (3 x primary lithium, encapsulated)
Lithium content	< 2 gram
Temperature, operating	-30 °C to +85 °C
Temperature, storage	+30 °C max (recommended)
ADR	UN3091
US content	0%
ECCN	EAR99
HS (TARIC export) code	8526912020
Country of origin	Made in Denmark

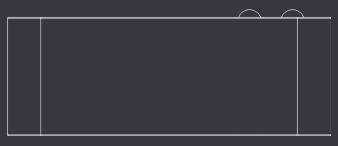
Typical number of transmissions

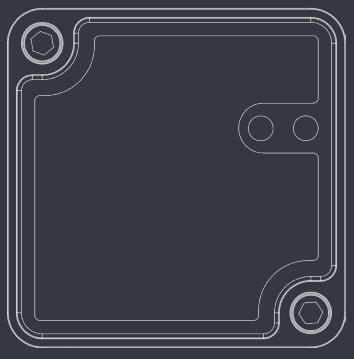
Network	3G	3G/2G **	2G
1 transmission/day	3000	2800	2500
4 transmissions/day	5000	4200	3500
24 transmissions/day	6000	5000	4000

Without GPS, add 10% to above

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







Version 6.0 - Subject to change without notice.
This data sheet references to firmware 3.54 or newer.