TG8

IoT tracking device

TG8 is a 3G/2G tracking device uniquely designed for safe flight operations and long-term tracking of all assets and equipment.

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

TG8 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. TG8 uses high-quality batteries designed for safe flight operations that comply with flight safety regulation.

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

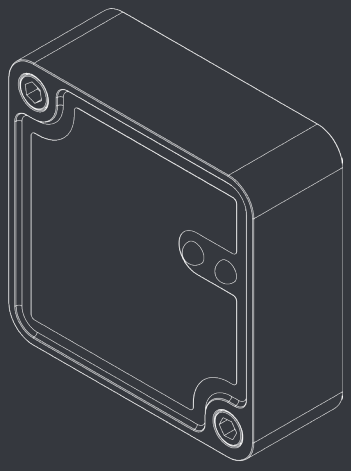
	Type: T8.300
Battery lifetime	Typical 2700 transmissions based on 1 transmission/day *
Sensors	Position, Motion, Tilt, Light, Utilization, 3-axis Shock (up to 8 g)
Data log	Store-and-forward log, default 200 entries of all data incl. position and sensor data
Antenna, GPS	Internal
Antenna, 3G/2G	Internal
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 28 mm
Weight	190 gram
Battery package	26 Wh (2 x primary lithium, encapsulated)
Lithium content	< 2 gram
Temperature, operating	-30 °C to +85 °C
Temperature, storage	+30 °C max (recommended)
ADR / IATA	UN3091, PI970 Section II
US content	0%
ECCN	EAR99
HS (TARIC export) code	8526912020
Country of origin	Made in Denmark

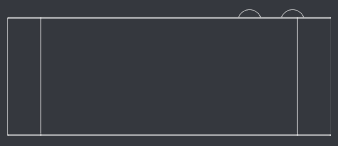
Typical number of transmissions

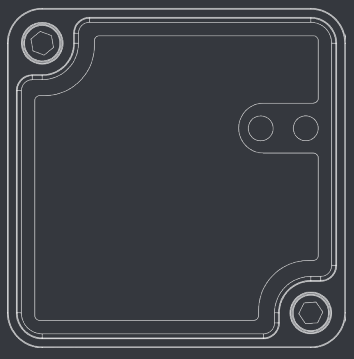
Network	3G	3G/2G **	2G
1 transmission/day	2700	2600	2300
4 transmissions/day	4600	3900	3200
24 transmissions/day	5500	4600	3700

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.