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
Position
Triangulation
Utilization
Temperature
Humidity
Shock
Tilt
Light
Battery
Radio Beacon
Flight Mode

TG8 is a small and unique product with typical 5 years battery lifetime based on reports of 1 position/day.

TG8 provides global connectivity of any asset; both powered and non-powered equipment and entire fleets. It is primarily designed for flight operations and industries like transport and logistics, construction, wind power, rental, and theft protection and recovery.

TG8 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.

Positions are 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.

The built-in 3-axis accelerometer will trigger accurate reports for motion, shock, tilt and utilization, while other sensors track temperature and light. The robust casing is suited for all industrial environments and all-weather conditions with an operating temperature range from -30°C to +85°C.

TG8 uses a penta-band 3G/2G module to send reports to the server. Reports are generated at user-fixed intervals, for example twice per day. Devices out of data coverage will log sensor input until coverage is available again.

TG8 uses high-quality batteries designed for safe flight operations that comply with flight safety regulations. Flight safe feature suppresses any radio transmission during the flight to ensure safe conditions.

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TG8 Specifications

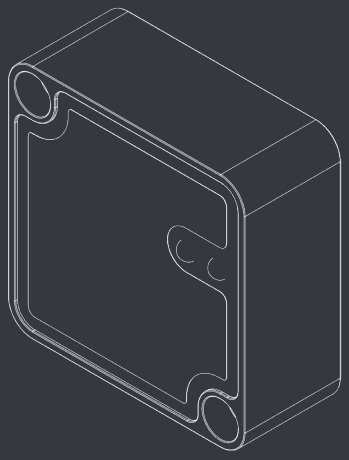
Battery lifetime	Typical 2700 reports based on 1 report/day *
Sensors	Position, Motion, Tilt, Temperature, Light, Utilization, 3-axis Shock
LOG	Store-and-forward log up to 100 reports, all data incl. position and sensor data
Network technology	3G/2G, penta-band (850/900/1800/1900/2100 MHz)
Antenna, GPS	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
Maximum allowed continuous acceleration	8 g
Dimensions	68 x 68 x 28 mm
Weight	190 g
Battery package	26 Wh (2 x primary lithium, encapsulated)
Lithium content	< 2 gram
ADR / IATA	UN3091, PI970 Section II
US content	0%
ECCN	EAR99
HS (Taric export) code	8526912020

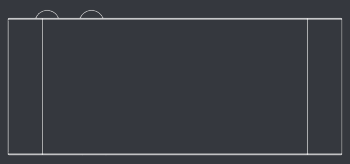
Typical number of reports

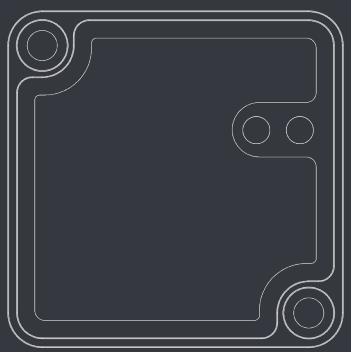
Network	3G	3G/2G **	2G
1 report/day	2700	2600	2300
4 report/day	4600	3900	3200
24 report/day	5500	4600	3700

Without GPS add 10% to above.

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







Version 5.1 - Subject to change without notice.
This data sheet references to firmware 3.05 or newer.