T9 LTE

IoT tracking device

T9LTE is an IoT tracking device for long-term tracking and monitoring of assets and equipment globally.

It is built on advanced sensor technology, and it features the low power network technology LTE Cat-M1, long battery life, easy installation and a robust casing.

LTE/2G
Position
Triangulation
Utilization
Temperature
Humidity
Shock
Tilt
Light
Battery
Radio Beacon
Flight Mode

T9LTE is a unique IoT product featuring the low power communication technology LTE Cat-M1. It typically offers 7 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.

T9LTE 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.

T9LTE 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.

Transmissions can be set at user-fixed intervals, for example twice per day, and if specified events occur. Devices out of data coverage will log sensor input until coverage is available again.

The built-in 3-axis accelerometer will trigger accurate data on motion, shock, tilt and utilization, while other sensors track temperature and light.

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

A flight mode feature suppresses radio transmissions to ensure safe conditions during flight.

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.

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Specifications

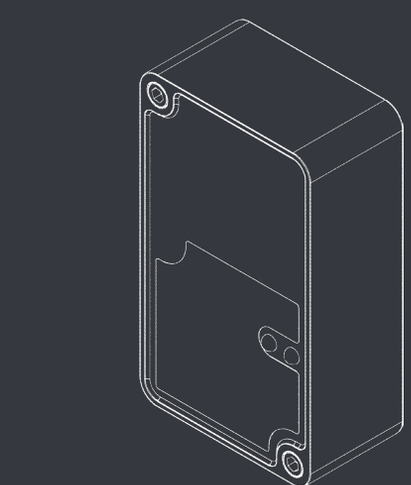
Battery lifetime	Typical 7000 transmissions based on 1 transmission/day *
Sensors	Position, Motion, Tilt, Temperature, Light, Utilization, 3-axis Shock (up to 8 g)
Log	Store-and-forward log, up to 200 entries of all data incl. position and sensor data
Network technology	LTE Cat-M1, GSM
Antenna, GPS	Internal
Antenna, LTE/2G	Internal
Antenna, radio	Internal
Radio beacon	UHF
SIM	Embedded, subscription required
Server communication	LTE/2G 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	112 x 68 x 39 mm
Weight	405 g
Battery package	47 Wh (Primary lithium, encapsulated)
Lithium content	3,8 gram
ADR	UN3091
US content	0%
ECCN	EAR99
HS (TARIC export) code	8526912020

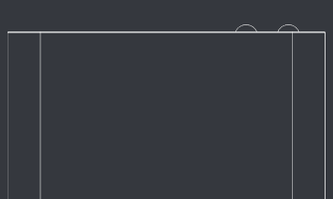
Typical number of transmissions

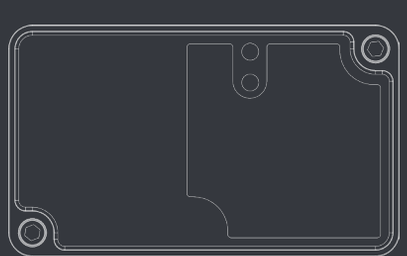
Network	LTE	LTE/2G **	2G
1 transmission/day	7000	6000	5000
4 transmissions/day	10000	8000	7000
24 transmissions/day	11000	9000	8000

Without GPS, add 10% to above

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







Version 5.0 - Subject to change without notice.
This data sheet references to firmware 3.05 or newer.