

TAT141 General description

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TAT141 is a device for asset tracking and additional protection against thefts of valuable goods, as well as it could be used in wide range of applications from tools tracking to container tracking. It is a robust waterproof solution with extremely easy mounting. The usage of the battery mainly depends on how long you want to monitor your goods.

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Package Contents

TAT141 device is supplied to the customer in a cardboard box.

Basic characteristics

GSM / GPRS / GNSS features:

- Teltonika [TM2500](#) with Quectel BG95-M3
- LTE CAT M1/NB-IoT/GSM
- GPRS Multi-Slot Class 12 (up to 85.6 kbps);
- Up to -165 dBm GNSS receiver sensitivity;
- SMS (text, data).

2G bands:

- GSM: B2/B3/B5/B8

4G LTE Cat 1 bands:

- LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
- LTE-FDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85

Data transfer:

- LTE: Max. 588Kbps (DL)/Max.1119Kbps (UL)
- GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)

Transmit power:

- Class 4 for GSM850/900: 23±2dBm
- Class 1 for GSM1800/1900: 20±2dBm
- Class 3 for LTE-TDD: 23±2.7dBm
- Class 3 for LTE-FDD: 23±2.7dBm

Data support:

- SMS (TEXT), Network protocols (TCP,UDP,TLS, EGTS, MQTT**)

Hardware features:

- Built-in movement sensor;
- Built-in Ultra-low-power Bluetooth® BlueNRG-232;
- Internal High Gain GNSS antenna;
- Internal High Gain GSM antenna;
- 128 MB Flash (220'000 records);
- 2200 mAh extremely low self-discharge Li-SOCl2 batteries 7.2V.

Special features:

- Water and dust resistant for outdoor integrations;
- Magnetic mount, strap and additional holder mounting possibilities;
- Convenient OTA (over-the-air) updating through user-friendly applications;
- I/O event;
- Sending acquired data via GPRS;
- GPRS and SMS I/O events;
- Configurable using Secured SMS Commands;
- Accelerometer wake up;
- Bluetooth® sensor support; *

Recovery mode; Periodic tracking on stop / on move;

- Scheduler with time zones;
- Backup tracking;
- Static navigation;
- Lost BLE sensor

Technical features

Part name	Physical specification
Status indication	1 LED
USB	USB socket
Measurements	78 x 63 x 28 mm (L x W x H)
LED State	Status
LED turned ON	Modem frozen or crashed unexpectedly
LED turned OFF	Device is in sleep mode or turned off
LED blinking every 5 seconds	Device is working, modem turned on

Technical details

Operating temperature (without battery) -20 °C to +60 °C

Ingress Protection Rating IP68

Dimension drawing:




Technical information about internal battery

Internal back-up battery	Battery voltage (V)	Nominal capacity (mAh)	Power (Wh)	Operating temperature range (°C)
Extremely low self-discharge Li-SOCl ₂ swappable, non-rechargeable battery, 7,2V 2200mAh	7.2	2200	15.84	-

 CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Battery should not be disposed of into general household waste.

 Bring damaged or worn-out batteries to your local recycling center or dispose them into a battery recycle bin commonly found in supermarkets.